

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

LIBRARY

RECEIVED

OCT 11 1909

OFFICIAL ORGAN OF THE NORTHWEST FRUIT GROWERS ASSOCIATION

U. S. Department of Agriculture

VOLUME FOUR

NUMBER FOUR

DOLLAR A YEAR

BETTER FRUIT

October 1909

PUBLISHED BY BETTER FRUIT PUBLISHING COMPANY, HOOD RIVER, OREGON

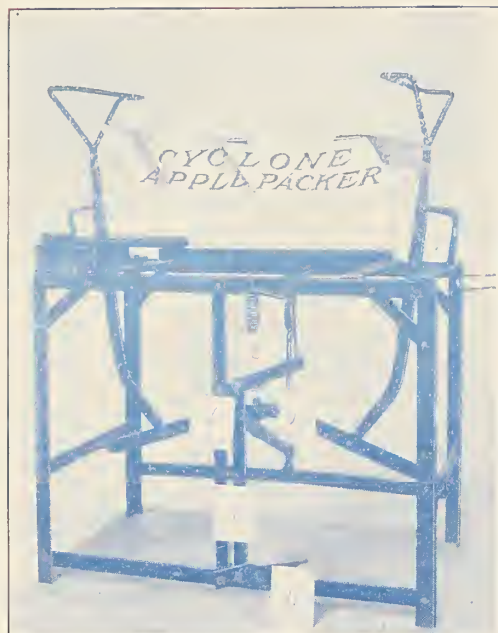


BEAUTIFUL ROGUE
RIVER

Flowing through the middle
of the famous fruit
district known
as the Rogue River Valley
Southern Oregon

Modern Way of Fruit Packing

THE CYCLONE APPLE PACKER



Is without exception the best machine on the market in the packer line, and is a great boon to all fruit growers. This machine is patented and is built here, under the supervision of wide-awake growers.

IT SAVES TIME IT SAVES LABOR IT SAVES EXPENSE

It does not injure fruits or other products that require careful packing. A boy can do more work on this machine than a man can on any other.

THE NEW COMPRESSION LEVER A FEATURE

This Packer is designed to obviate the well-known faults of other style machines. With the old style machine it is necessary for the operator to place the compression arms in position before tightening the covers. The Cyclone does away with this fault, by the operator merely pressing his foot on the compression lever, which immediately brings the arms to the proper position, besides adjusting the covers even with the ends of box. By the use of the patented friction clutch, the arms can be set at any desired position, and instantly released by pressing the release lever, which brings the arms back to place.

STEEL CONSTRUCTION

The all-steel construction of this machine insures lightness and durability. The compression arms are positive in operation, by means of the guides which hold them in the slides, as is shown by Figure 1. Attention is called to wide space on the arms, which gives plenty of room for nailing and cleats. The heavy release spring as shown by Figure 2 is sufficiently strong when released to bring all parts back to place. Figure 3 shows the connecting link, which is bolted to the connecting bars, and to these bars are bolted the compression arms, and by this attachment any unevenness in the pack is overcome and guarantees bringing the covers securely down on the box. Figure 4 shows the foot lever, which is conveniently bolted on the machine. The friction clutch (Figure 5) is so arranged that any pressure on the foot lever immediately expands the spring, and thus tightens on the lever, holding it at any desired position. Figure 6 shows the release lever, which is bolted close to the foot lever, making both easily operated with one foot. The machines are sold under a positive guarantee to give satisfaction or money refunded. Try one.

WELLS & MORRIS

WENATCHEE, WASHINGTON

JONATHANS

NEWTOWNS

THE LAND OF OPPORTUNITY



Three-Year-Old Spitzenberg Apple Tree at White Salmon

Located across the Columbia River from Hood River, Oregon, the White Salmon Valley offers the greatest opportunities of any land on earth to fruit growers. Where apples, cherries, pears, peaches, prunes and strawberries grow to perfection. A few dollars invested in fruit land today will return to you in a very few years sixty-fold. The soil, climate, water and scenery are unsurpassed by that of any country. Build a home where you can enjoy peace and plenty the remainder of your life. Fruit lands cleared, planted and cared for until in a bearing condition. Write us for descriptive matter and prices.

Estes Realty & Investment Co.
WHITE SALMON, WASHINGTON

SPITZENBERGS

WINESAPS

Prunes

Peaches

Pears

Plums

Apples

Berries

Cherries

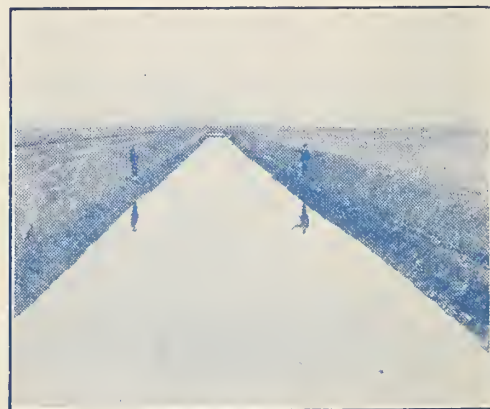
Strawberries

Nuts

WINTER APPLES

Will make a man rich on ten acres of

SPOKANE VALLEY LAND



SPOKANE RIVER CANAL

Under the Largest and Best-constructed Irrigation Canal in Eastern Washington. Close to a city of 120,000 people. Electric and steam railroads at your door. Fine climate; beautiful roads. A pleasant place to live.

WRITE FOR INFORMATION. IT IS FREE

Becher & Thompson

110 Stevens Street

SPOKANE, WASH.

E. P. LOOMIS & CO.

Established 1868

95-97-99 Barclay Street

New York City, N. Y.

To all Growers of Fancy Box Apples

This is the year to ship on consignment to an old established house that has for years made a specialty of selling box apples to a large high-class trade who pay top prices for fancy stock.

We can sell your shipments on arrival and mail you account sales with check for net proceeds the same day the stock is sold, or we will hold any variety you wish, in our cold storage warehouse, for late spring sale, or whenever you think best. Our

NEW YORK CITY MARKET

the broadest market in this country, will take at the highest prices fancy

Spitzenbergs, Newtowns, Winesaps, Jonathans, Rome Beauties, Arkansas Blacks, Winter Bananas, Delicious and Red Ganos

We make reasonable advances on all consignments, if shippers desire

Write to us and get acquainted

One of our firm visits all the apple sections in Colorado, Oregon, Washington and Idaho, every year, from August 1 to October 15. Let us know where you are and we will call on you and give you all the information we can that will help you market your goods to the best advantage. Among our regular and satisfied shippers are: The Wenatchee Produce Company, Wenatchee, Washington; Nelson Bros. Fruit Company, Paonia, Colorado; M. M. Hill, Frank Stanton and Wilson Fike, owning three of the finest orchards in Hood River Valley, Oregon; J. M. Perry & Co., North Yakima, Washington. If you want more information as to our reliability and financial responsibility, write to any of the above mentioned, as well as our good friend Edward H. Shepard, the editor of the best fruit magazine in the world, "Better Fruit."

BOX APPLES ARE OUR SPECIALTY

but we can sell your Peaches, Pears and Italian Prunes as well as any other receiver in New York City

Don't Forget New York City's Enormous Market, High Prices for Fancy Stock, Quick Sales and Quick Returns and Yours Truly

E. P. LOOMIS & CO.

Established 1868

95-97-99 Barclay Street

New York City, New York

OUR OWN COLD STORAGE WAREHOUSE ON OUR PREMISES

D. CROSSLEY & SONS

Established 1878

APPLES FOR EXPORT

California, Oregon, Washington, Idaho and Florida fruits. Apples handled in all European markets. Checks mailed from our New York office same day apples are sold on the other side. We are not agents we **sell apples**. We make a specialty of handling cherries, apricots, peaches and all early fruits on the New York market. Correspondence solicited.

200 TO 204 FRANKLIN STREET, NEW YORK

LIVERPOOL

NEW YORK

BOSTON

GLASGOW

THE LAGOMARCINO-GRUPE CO.

Burlington, Davenport, Cedar Rapids, Ottumwa,
Creston, Dubuque, Clinton, Iowa

Want Cars of Apples, Peaches, Pears, Etc.

Also Handle Vegetables in Carload Lots

CORRESPOND WITH THEM

ALFRED W. OTIS

92 COMMERCIAL STREET

BOSTON, MASSACHUSETTS

Apples for American and Foreign Markets

AGENTS FOR

Thomas Russell, Glasgow, Scotland

Woodall & Co., Liverpool, England

Ph. Astheimier & Son, Hamburg, Germany

M. Isaacs & Sons, Ltd., London, England

SHIPMENTS FORWARDED FROM BOSTON OR NEW YORK

Market Quotations and Full Particulars on Application

Correspondence Invited

European Receivers of American Fruits

SIMONS, JACOBS & CO.
GLASGOW

SIMONS, SHUTTLEWORTH & CO.
LIVERPOOL and MANCHESTER

GARCIA, JACOBS & CO.
LONDON

J. H. LUTTEN & SON
HAMBURG

OMER DECUGIS ET FILS
PARIS

For Market Information Address:

Simons, Shuttleworth & French Co.
204 Franklin Street, New York

Walter Webbing
46 Clinton Street, Boston

John Brown
Brighton, Ontario

Ira B. Solomon
Canning, Nova Scotia

Wm. Clement
Montreal, Quebec

D. L. Dick
Portland, Maine

OUR SPECIALTIES ARE APPLES AND PEARS

Pearson-Page Co.

131-133 Front Street
PORTLAND, OREGON

—
Superior facilities for handling

**PEACHES
APPLES AND
PEARS**

Solicit Your Consignments

Reliable Market Reports Prompt Cash Returns

THE
**DAVIDSON
FRUIT CO.**

of
HOOD RIVER, OREGON

Pioneer fruit packers and shippers of this famous section. "Quality" is our watchword, and "Fruit Worth the Price" is our motto. Wire or write us for apples, strawberries or pears in season, in car lots or smaller shipments. Other fruits in season in less quantities.

**Ryan & Newton
Company**

Wholesale Fruits & Produce
Spokane, Wash.

We have modern cold storage facilities essential for the handling of your products

Reliable market reports

PROMPT CASH RETURNS

Salem Fruit Union

SALEM, OREGON

Packers and shippers of the

CHERICITTI BRAND OF
**PLUMS, PEARS
APPLES**

Strawberries, Loganberries
Raspberries, Currants, Goosberries
Cherries, Etc., in Season

**ALL A.-Y.-P. E.
FRUIT**

sold on the grounds this year will be ours exclusively. If you have anything nice to ship we can use it. Write us today.

Gordon & Company

805-7 Western Ave., Seattle, Wash.

N. A. Lewis, President W. E. Vidger, Sec'y
F. C. Gardner, Vice-Pres. A. L. Loomis, Treas.

**The Lewis-Vidger-
Loomis Co.**

FARGO, NORTH DAKOTA

Houses at

Fargo, Bismark, Jamestown, N. D.

**WHOLESALE
FRUIT AND COMMISSION
MERCHANTS**

Cipher Codes: Revised Economy, Modern Economy, Earl Fruit Company
References: Merchants National Bank, Fargo National Bank, Commercial Bank
CORRESPONDENCE SOLICITED

**YAKIMA COUNTY
HORTICULTURAL
UNION**

North Yakima, Washington

C. R. Paddock, Manager

Apples, Pears, Peaches, Cherries,
Plums, Prunes, Apricots, Grapes
and Cantaloupes

Mixed carloads start about
July 20. Straight carloads in
season. Our fruit is the very
best grade; pack guaranteed

We use Revised Economy Code

Apple Storage

ST. LOUIS is the best local market and distributing point to ship your apples, and hold on cold storage, for highest winter prices.

Oregon, Washington and Idaho

**Fruit Associations
Growers and Shippers**

I solicit your carload shipments of box apples this fall for cold storage here. Will advance freights and pay insurance, charging usual commission and interest.

Storage rates 15 cents per box for season ending May 1.

Only Extra Fancy Fruit wanted.

I do business with the Mound City Ice and Cold Storage Company, the largest and most modern apple storage house in the middle West. Cars unloaded direct into coolers.

F. S. Timberlake

3019 North Broadway Street
ST. LOUIS, MISSOURI

Bank and Other References

**LINDSAY
& CO. LTD.
Wholesale Fruits**

HELENA, MONTANA

Established in Helena Quarter of a Century

Branch houses: Great Falls, Missoula and Billings, Montana

FRUIT FACTS

Chelan County won 35 gold medals on fruit exhibits at the Portland Exposition, 1905. This record was not equaled by any other county on the Pacific Coast. We will have 75 to 100 cars of apples, Winesaps, Spitzenbergs, Rome Beauties, Lawvers, Jonathans, etc., all packed under the supervision of this association. Correspondence solicited.

**Wenatchee Valley
Fruit Growers' Association**
Wenatchee, Washington

M. O. Tibbetts, Pres.

E. T. Balch, Sec.

Davenport Bros.

Portland, Oregon

**WHOLESALE
FRUIT &
PRODUCE**

Growers and Shippers of the Famous

Mosier Valley Fruits

Richey & Gilbert Co.

H. M. GILBERT, Pres. and Mgr.

GROWERS AND SHIPPERS OF

**YAKIMA VALLEY
FRUITS AND PRODUCE**Specialties: Apples, Peaches
Pears and Cantaloupes

TOPPENISH, WASHINGTON

S. Segari & CompanyCommission Merchants
Fruit and Produce

Established 1884

Members
National League Commission Merchants of the
United States
International Apple Shippers' AssociationAPPLES OUR SPECIALTY
The largest handlers of barrel and
box Apples in the entire South.Office
117 Poydras Street 436-442 South Front Street
NEW ORLEANS, LA.**H. WOODS CO.**
WHOLESALE FRUITS
and
COMMISSION

Apples, Peaches and Strawberries

127 South Water Street
CHICAGO, ILLINOIS**PORTLAND
BROKERAGE CO.**

Consignments solicited with quick returns

**FRUITS, PRODUCE
BUTTER AND EGGS**

TELEPHONE A 5758

206 Stark St., Portland, Oregon
Between Front and First Streets**FAMOUS HOOD RIVER****Strawberries**THE FINEST BERRY
ON EARTH AND
THE BEST SHIPPER

Look Good, but Taste Better

Fancy Pack Guaranteed

FRUIT GROWERS UNION

HOOD RIVER, OREGON

Mark Levy & Co.COMMISSION
MERCHANTS**WHOLESALE FRUITS**121-123 FRONT AND
200 WASHINGTON ST.
PORTLAND, OREGON**Levy & Spiegl**

WHOLESALE

**FRUITS & PRODUCE
Commission Merchants**SOLICIT YOUR CONSIGNMENTS
Top Prices and Prompt Returns
PORTLAND, OREGON**FAMOUS HOOD RIVER****APPLES**Spitzenbergs, Newtowns, Jonathans
Arkansas Blacks, Ortleys, Wine-
saps, R. C. Pippins, Baldwins,
M. B. Twigs, Ben Davis

Look Good, Taste Better, Sell Best

Grade and Pack Guaranteed

Apple Growers' Union

Hood River, Oregon

BELL & CO.

Incorporated

**WHOLESALE
FRUITS AND
PRODUCE**109-115 Front Street
PORTLAND, OREGON**O. W. BUTTS****Wholesale Fruits
and Commission**STRAWBERRIES AND APPLES
Our SpecialtyA Strong House, Pioneer Dealer
of Thirty Years' Experience

OMAHA, NEBRASKA

**IF YOU WANT TO
MARKET YOUR****FRUIT**

RIGHT, ALWAYS SHIP TO

W. B. Glafke Co.WHOLESALE FRUITS
AND PRODUCE108-110 Front Street
PORTLAND, OREGON

W. H. Dryer

W. W. Bollam

Dryer, Bollam & Co.**General
Commission
Merchants**128 FRONT STREET
PORTLAND, OREGON
TELEPHONE MAIN 2348Directors:
GEO. E. BRYANT C. W. CORLISS
H. L. PINNEY**Seattle Fruit and Produce
Auction Co.**

INCORPORATED

GEO. E. BRYANT, Manager
Depository, National Bank of Commerce
Capital Stock, \$25,000Wholesale Fruits, Vegetables and Produce
BERRIES IN CAR LOTSOur Motto: Quick Sales and Daily Reports
Phone, Sunset Main 5563, Independent 5543
315 Railroad Ave. South, Seattle, Wash.

R. G. MURDOCH & COMPANY

40 Dearborn St., CHICAGO

Official Representatives of

California Fruit Distributors

Earl Fruit Company

Sacramento, California

The proper handling and distribution of deciduous

Fruit

in car lots, guaranteed by ten years' actual experience

Investigate us as to experience, ability and responsibility

Your Correspondence Solicited

Our Daily Market Letter
Is Yours for the Asking

MCEWEN & KOSKEY

*Wholesale Fruit and Produce and
General Commission Merchants*

129 Front Street, Portland, Oregon

CONSIGNMENTS

Are solicited, all your shipments
receiving our personal attention

John H. Simon

Wholesale

FRUITS AND VEGETABLES

119 Dock Street and 244 South Front Street

PHILADELPHIA, PA.

Ira J. Nelson, *President* M. Clay
Clarence Nelson, *Secretary*

THE

Nelson Bros. Fruit Co.

PAONIA, COLORADO

We will make a specialty of filling f. o. b. orders on Elberta Peaches and high grade Jonathan, Rome Beauty and other North Fork Apples this season, and invite correspondence from those who will be in the market to buy. Let us put your name on our list, and we will keep you advised and quote you when shipments are ready to move.

The Lawrence - Hensley Fruit Co.

Successors to
THE LIEBHARDT FRUIT CO.

Jobbers of

Fruits and Vegetables

and Apple Packers

DENVER, COLORADO

SGOBEL & DAY

NEW YORK

APPLES, PEARS, PRUNES

QUALITY QUALITY QUALITY

J. GRANGER & Co.

Lincoln, Nebraska

Wholesale Fruit Merchants

Largest receivers and distributors of Western apples, strawberries, raspberries and blackberries in Nebraska. Send us your shipments. We will get you the highest market prices and remit promptly

Correspondence Cheerfully Answered

References: Corn Exchange National Bank, Chicago, Illinois; Chatbam National Bank, New York City; First National Bank, Lincoln, Nebraska; Richey & Gilbert Company, Toppenish, Washington; Yakima County Horticultural Union, North Yakima, Washington

The B. Presley Co.

Wholesale Fruits

St. Paul

We handle annually 1,500 Cars
Fresh Green Fruits

*Write us on Apples, Peaches, Prunes, Pears
and anything else in our line which you may
have to offer*

Correspondence Solicited

RYAN & VIRDEN CO.

BUTTE, MONTANA

Branch Houses:

Livingstone, Billings, Sheridan,
Montana; Lewiston, Idaho.

Wholesale Fruit and Produce

WE HAVE MODERN COLD STORAGE FACILITIES
ESSENTIAL FOR HANDLING YOUR PRODUCTS

A strong house that gives reliable
market reports and prompt cash returns

NEW ORLEANS

IMPORTERS
JOBBER

Wholesale
Commission

APPEL & UJEFFY

All Fruits in Season

STORAGE FOR
SIXTY CARS

The Largest Exclusive Fruit
Concern in the South

The Acknowledged Fancy
Fruit House of New Orleans

Walter C. Deyo

Emery Deyo

W. C. Deyo & Bro.

Box Apples
a Specialty

859-861 Washington Street
NEW YORK

*Members of National League of Commission
Merchants*

Responsibility \$300,000

Established 1878

PALMER & CO.*Wholesale Fruit Dealers*

Sioux City, Iowa

We Make a Specialty of Western Fruits

If you are a shipper or grower of

Peaches or Pears

Don't fail to let us know what you have to offer

CORRESPONDENCE SOLICITED

COLD STORAGE**For Apples, Pears, Peaches, Etc.**

Our storage rooms are clean and sweet. Our insurance rate the lowest in the city. Our location (the big yellow brick building between the steel bridge and Union Depot) is the most convenient. Write for terms and information. Special rate on large lots. Private track facilities.

HAZELWOOD CREAM CO.

Phones: A 6001—Exchange 40 Portland, Oregon

We Want Your Shipments

OF
Apples, Peaches, Plums, Grapes,
Pears, Potatoes, Onions

And all other varieties of seasonable
Fruits and Produce

Car lots or less. We are at your service and guarantee you a square deal. Correspondence and consignments solicited.

References:

Exchange National Bank, Spokane
First National Bank, Cœur d'Alene

C. E. CONNELL CO., INC.

Wholesale Fruit and Produce
Spokane, Washington

FRUIT**We Want all Kinds — Apples, Pears, Peaches, Etc.***Correspond With***HJORTH & GOODMAN***Wholesale Exclusive Fruits*

ST. PAUL, MINNESOTA

Upper Hood River Valley

Cheap and the best of land. Plenty of water for irrigation at low rates. Good transportation facilities. You are cordially invited to see what I have done at my home in six years. I handle these lands.

W. H. MARSHALL

Dee, Oregon In Hood River Valley

LAND

Apples, Peaches, Cherries and Apricots are moneymakers. Why not buy land where they grow to perfection. I have some bargains

Roe A. Deal, Springville, Utah

John Leland Henderson

Incorporated
COUNTY SURVEYOR

HOOD RIVER, OREGON*POSSESSES*

CLIMATE—A desirable medium between the drier eastern and the more moist western conditions of the Northwest.

SOIL—Volcanic ash, rich in phosphates, and recognized as the best in the world for apples and strawberries.

Makes a specialty of real estate, conveying, loans and surveying. The president, John Leland Henderson, is a practicing lawyer residing in Hood River, and has been identified with the Hood River Valley for thirty-three years.

EMMETT***Fruit Lands***

20,000 acres of finest Peach, Pear, Apricot, Apple, Sweet Cherry and Grape lands in the Northwest. Twenty-seven years without a failure. Abundance of water. Unexcelled climate. Write for booklet to SECRETARY COMMERCIAL CLUB Emmett, Idaho

LAND**OF BIG, RED APPLES**

WE ALWAYS HAVE SOME

CHOICE TRACTS TO OFFER

At popular prices, and sell them strictly on their merits. Years of study given to Hood River and its products. Can sell you intelligently. Call on or address

Geo. D. Culbertson & Co.

Leading Land Agents Hood River, Oregon

Willamette Valley Fruit Lands

in tracts to suit. Rich soil, delightful climate. For descriptive literature write

OLMSTED LAND CO., Salem, Oregon

IF YOU WANT TO KNOW ABOUT

OREGON

SUBSCRIBE FOR

The Chamber of Commerce Bulletin*A Monthly Commercial Publication of Merit*

Official organ of The Portland Chamber of Commerce, the leading and most influential commercial body in the Pacific Northwest

SUBSCRIBE NOW, \$1.00 PER YEAR

ADDRESS

The Chamber of Commerce BulletinDAVID N. MOSESJOHN, *Publisher*

Suite 616, Chamber of Commerce Bldg.
Portland, Oregon

**ALWAYS A FRUIT CROP IN
HOOD RIVER VALLEY**

With best of prices, scenery, climate, transportation, soil, mountain water, timber, etc. Send for our list of lands and literature

G. Y. EDWARDS & CO.**Hood River, Oregon**

ROGUE RIVER VALLEY

Famous for its APPLES, PEARS, PEACHES,
GRAPES, MELONS AND CLIMATE

THE natural home of the Spitzenberg and Newtown apples. Rogue River pears have led the United States for past five years in the highest price in the New York market. No peaches of the South excel those of Rogue River, and trees are healthy. Grapes perfection in color and flavor and the best of shippers, and growers have more orders than they can fill. Rogue River canteloupes, water-melons and cassabas, none better and big money makers. The Rogue River Fruit Growers' Union gets the highest price for fruit, and the Southern Pacific gives terminal rates on shipments East. Climate the perfect medium between arid California and webfoot Oregon. No storms or winds to injure fruit crop. Almonds and figs ripen perfectly and palms grow in the yards. Land yet cheap, but will double in two years. American community and good schools, rural mails, telephones, etc. Full information by addressing CHARLES MESERVE, Medford, Oregon, Seller of Real Estate in All Parts of Rogue River Valley. References by permission: Rogue River Fruit Growers' Union, First National Bank of Medford.

Live facts in a lively way. Live facts for men and women. Facts that affect you—your family

**Hood River Valley
APPLE LANDS**

Are paying from \$400 to \$700 an acre to their owners. Many started in a small way; today they are independent. You can begin today. It pays to see us

He who investigates for himself becomes "the man who knows"

W. J. BAKER & CO.
Hood River, Oregon

MOSIER

Also called East Hood River

FRUIT LANDS

In large or small tracts. Some very good land at low prices at present. Good growing community. Six miles east of Hood River. Parties wishing to buy will do well to write or see

GEO. CHAMBERLAIN
MOSIER, OREGON

**HOOD RIVER
APPLE LAND**

For Sale on Easy Terms

10 acres, uncleared, per acre,	\$125
20 acres, complete place,	\$20,000
40 acres, uncleared	\$1,600
80 acres, uncleared,	\$2,000
148 acres, partially cleared,	\$5,000

Clark Seedling Strawberry plants
now ready for delivery

Price \$2.50 per thousand

J. Adrian Epping, Hood River, Oregon

HUDSON LAND CO.

THE DALLES, OREGON

Fruit, Wheat and Stock Farms

For sale in Eastern Oregon and Washington. Acre tracts in any quantity desired, with or without trees planted, within one mile of city. We are sole agents for the sale of five and ten-acre tracts in Peachland Park, which we can sell you on easy installments and care for the orchard until it is in full bearing. This is a beautiful tract of land situate one mile west and overlooking the city. The soil is a rich, deep, sandy loam, and is set out on the most approved methods to peaches and cherries. Some of the trees are three years old. Write to us for full particulars.

English Walnuts

AND

Royal Ann Cherries

We are the largest owners and planters of walnuts in Oregon. Our properties are in Yamhill County, the Walnut County. We sell planted five-acre tracts \$100 cash and \$15 per month, with four years' care.

The Churchill-Matthews Co.

Incorporated

Lumber Exchange Bldg., Portland, Oregon

Arcadia Orchards Company—Irrigated Orchards

The Land of Sunshine

The Center of the Best Fruit Belt in Washington

Only twenty-two miles from Spokane. Excellent transportation facilities, ideal climate, irrigation by gravity

Our Plan: We plant, cultivate, irrigate and care for your orchard for four years, and pay your taxes for five years. You may remain at your present occupation while we bring your orchard to bearing. No charge for water. The largest private irrigation project in the West. Buy now, before a further increase in values. Easy terms. Send for literature.

ARCADIA ORCHARDS COMPANY

Hyde Building, SPOKANE, WASHINGTON

DUFUR VALLEY, OREGON

WHERE YOU CAN GET

GOOD FRUIT OR WHEAT LANDS, CHEAP

Opportunities for the orchardist and diversified farmer lie thick in Dufur Valley

Three streams fed by snow from Mt. Hood flow through the valley

WRITE FOR DESCRIPTIVE BOOKLET TO

DUFUR VALLEY DEVELOPMENT LEAGUE

DUFUR, OREGON

White Salmon Valley

WASHINGTON

Across the river from Hood River Valley, Oregon, in the Banner Apple Belt of the World



The WHITE SALMON VALLEY today presents OPPORTUNITIES FOR INVESTMENT beyond that of any other FRUIT REGION in the Northwest. It is the north half of a LARGE VALLEY lying between Mount Adams on the north and Mount Hood on the south. The mighty Columbia flows between and divides this valley. From the Columbia River to Mount Hood forms the Hood River Valley, and from the Columbia River to Mount Adams forms the White Salmon Valley. Both these mountains are snowclad all the year and influence the climatic conditions. This, together with a volcanic ash soil, produces apples that are superior to all others in the world in FLAVOR, SIZE, COLOR, and, most important of all, KEEPING AND SHIPPING QUALITIES.

Ninety per cent of the fruit grown in this valley is exported, bringing the highest market prices.

THE CLIMATE of this region is ideal. It is located in the midst of the CASCADES, with a pure mountain air and free from excessive rains or drought. The snow-covered peaks at either end of the valley temper the heat of summer and make the summer nights cool and invigorating. The winters are as a rule mild and short. The scenery is as fine as may be found anywhere on the continent.

The valley has been held back heretofore through lack of railroad transportation, but the SPOKANE, PORTLAND & SEATTLE RAILROAD, part of the Hill system, now in operation, gives this valley the best of shipping facilities.

NOW IS THE TIME TO SECURE A CHOICE ORCHARD TRACT AT A LOW FIGURE. Write today for particulars of this wonderful valley to the

WHITE SALMON VALLEY DEVELOPMENT LEAGUE, WHITE SALMON, WASHINGTON

The Beautiful White Salmon Valley

LAND AS AN INVESTMENT IN THE WHITE SALMON VALLEY

WHILE we, of this favored spot, would rather see bona fide settlers come among us and acquire land and devote their time and attention to fruit raising, we are not slighting the advantages offered to investors. It is a well known fact that land, especially in this locality, never decreases in value, but rather increases. A man may see the savings of a year disappear through frenzied speculation of unscrupulous bank officials, but when those same savings are invested in land in this locality, which is rapidly coming to the front as a fruit raising country, and is being settled up and improved, the value of those savings will multiply many times. You can buy unimproved fruit land in small or large tracts at \$50 to \$150 per acre; the same land is equal to lands in Hood River that are selling for \$500 to \$2,000 per acre. Yellow Newtown apples on this land have netted at the rate of \$1,600 an acre for one crop. INVESTOR, what will the same land be worth one year from now? What do you think of a savings account in Nature's great bank? It is always there, payable on demand. We cannot promise that these prices will prevail six months from now. Take our advice and look it up now; do not delay. It will mean prosperity and comfort for you and those who are depending upon you.

For booklet and pictures describing the White Salmon valley, write or call upon us.

An Ideal Home

No. 250—80 acres of land in White Salmon valley, directly opposite Hood River, Oregon, and located in most desirable section, only 1½ miles from station of Underwood, Washington, on the new Spokane, Portland & Seattle Railway; about 20 acres cleared; Spitzenberg and Winter Banana apple trees in third year; 9 or 10 acres of best strawberries, giving handsome returns and insuring good living now; orchard of peaches, prunes, cherries, pears and grapes; large tract of beaver dam land, suitable for celery, asparagus, melons, etc.; abundance of water from springs for domestic use and irrigation; new two-horsepower gasoline engine and large capacity pressure pump; 600 feet of two-inch galvanized iron pipe, fire hose, etc.; new

1,500-gallon patent redwood tank on 30-foot tower; new house containing 6 rooms, with cellar, hot and cold water.

A Good Home

No. 247—23 acres, 6 of which are planted to Newtown and Spitzenberg apples; 13 acres ready to plant; good stream of water running through place; good well; land can be irrigated. Price \$6,900; terms.

A Good Buy

No. 254—80 acres, in the Trout Lake country, all level and free from rock; 50 acres in meadow; abundance of water. This we consider the best buy in the Trout Lake country. \$2,000 cash, balance 5 years.

Fine Investment

No. 253—80 acres 6 miles from White Salmon; good bearing apple orchard of 18 acres; 15 acres more ready to plow; plenty of spring water; good house and barn; all stock and farm machinery on the place are included, which amounts to about \$5,000. Price \$16,000. For itemized list of everything that goes with this place, write us at once.

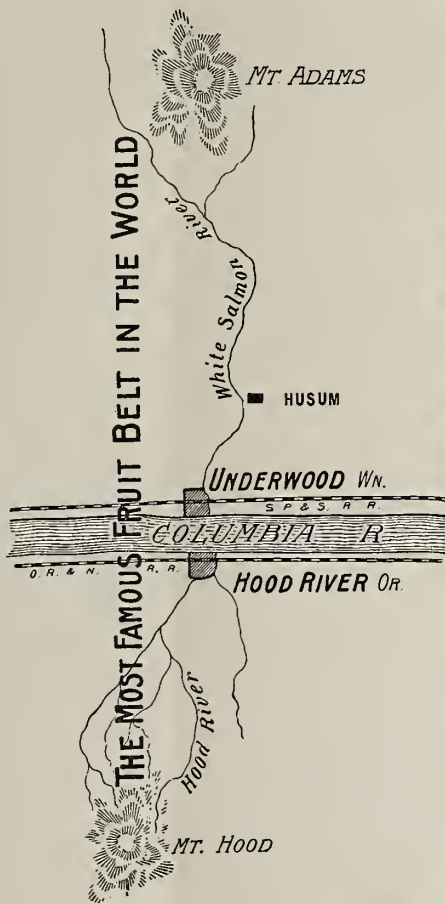
Desirable Location

No. 255—6¼ acres 5 miles from White Salmon, on the White Salmon river; about 5 acres cleared and planted to apple trees and strawberries; small house and an abundance of water. This is the choicest small home in the White Salmon valley. Price \$4,500; terms.

We have a big list of other lands for sale at a bargain. Write for particulars to

Egan-Hair Real Estate Co.

White Salmon, Washington



UNDERWOOD

The Gateway to the White Salmon Valley



WHITE SALMON VALLEY FRUIT GROWERS' UNION OF UNDERWOOD, WASHINGTON, Won Three Important Premiums at Spokane—First on Best Four-Tier Newtowns, Second on Best Ten Boxes Newtowns, First on Best Pack.

Twenty minutes from Hood River by ferry. Two hours by rail, seven hours by boat from Portland. Twenty-five thousand acres first-class fruit land tributary to this point. Has a strong Apple Growers' Union, which controls the output of the valley. Same fruit, same markets, same prices as Hood River has. Fine class of people coming in—a community of homes. Land close in to river and railroad \$40.00 to \$150.00 an acre now, but advancing rapidly.

Write, phone or call on

W. F. CASH UNDERWOOD
WASHINGTON

Splendid Opportunity for a Good Investment

A chance of a lifetime to secure Ten Acres of Choice Apple Land at only \$100 per acre

20 Acres for \$1975

30 Acres for \$2900

40 Acres for \$3750



WHITE SALMON VALLEY APPLES AT HOOD RIVER FAIR

These tracts are located only four miles from Hood River, across the Columbia River, at Underwood, Washington, in the famous White Salmon Valley, with a grand view of the Columbia River and Hood River Valley. No waste land; all rich, deep soil; good, natural air and water drainage; no frost. Address owner

C. R. GREISEN, Hood River, Oregon

Hood River Orchards

SOME OF OUR HIGH CLASS IMPROVED PROPERTIES
BEFORE BUYING IN HOOD RIVER SEE OUR COMPLETE LIST

GMC—6 acres, 7 miles from town; trees 1 year old; near railroad station. Price \$400 per acre; easy terms.

533—10 acres 7 miles out on East Side; ¼ mile to railroad station; near school, church and store; 4 acres 1-year-old Spitzenbergs, Newtowns and Ortleys, balance of land in clover. Price \$3,700; easy terms.

554—10 acres 1½ miles out on West Side; 5 acres 5 and 6-year-old and 3 acres 2 and 3-year-old Spitzenbergs and Newtowns; 1½ acres strawberries, 2½ acres potatoes, 2 acres clover; 6 inches irrigation water; house, barn and sheds. Price \$11,000; easy terms.

538—10 acres 3 miles out on West Side, all in 1-year-old Spitzenbergs, Newtowns and Ortleys; 35,000 strawberry plants; 7½ inches water stock; all fenced with woven wire fencing. Price \$7,500; easy terms.

550—12 acres 2½ miles out on West Side; 1½ acres 16-year-old Spitzenbergs and Newtowns; 3½ acres 2 and 3-year-old, and 4 acres 1-year-old Spitzenbergs and Newtowns; 4 acres strawberries, 1 acre 1-year-old pears, 1 acre alfalfa; 6-room house, barn, wagon and harness. Price \$13,500; easy terms.

557—20 acres 5 miles out on West Side; 3 acres 12-year old Spitzenbergs and a few Ben Davis; 8 acres 2-year-old Spitzenbergs and Newtowns; 5 acres plowed and ready for setting; balance of land in grass; county road along two sides; apple house. Price \$10,000; easy terms.

559—20 acres 5½ miles out on East Side, all in trees; 18 acres 6-year-old Spitzenbergs, Newtowns and Jonathans; 2 acres 4-year-old home orchard of all kinds of tree fruits; in good neighborhood; best of soil. Price \$20,000; easy terms.

GCK—20 acres 6½ miles out on East Side; 17 acres in 5 and 6-year-old Spitzenbergs, Newtowns and Jonathans; 3 acres alfalfa and garden; good 6-room house, barn, outbuildings; 6 inches water stock; very sightly; best of apple land; in good neighborhood and on main traveled road. Price \$21,000; easy terms.

421—160 acres 5 miles south of Mosier; 25 acres in orchard, 7 acres in bearing, all commercial varieties; home orchard of all kinds of small fruit; several grape vines of different varieties; water available for irrigation; house, small barn, winter cellar, wood shed, etc.; 140 acres good apple land. The orchard alone is worth the price asked for the whole, \$12,000; easy terms.

J. H. HEILBRONNER & CO.

The Reliable Dealers

DAVIDSON BUILDING

HOOD RIVER, OREGON

Hood River, the Land of Opportunity

FOUR REAL BARGAINS

40 Acres 35 acres of which is as fine apple land as can be had in this world-famous district. Soil and drainage are perfect. Can all be cleared for \$35 per acre; 4½ miles from depot at Mosier. Price \$2,000 cash. Buy this, grow your own orchard and get in on the ground floor.

26 Acres Most of which is A No. 1 apple land. Trout creek and fine spring on place. Six acres in orchard, garden, etc. New house and other buildings. Main road, only four miles from Hood River. Best buy in the district for \$5,000. Terms.

10 Acres All good apple land, about half cleared. Best of soil and good drainage. Right in the heart of the valley. A snap for \$4,000.

10 Acres Under high state of cultivation. Nine acres in commercial orchard, with strawberries and produce between trees. Free water. Buildings cost \$2,000. Only 2½ miles from town. Stock, implements, tools and everything complete. Worth \$10,000. Price \$8,200.

We have many more, large and small, improved and unimproved.

It will pay you to see us before you invest.



FOUR-YEAR-OLD APPLE ORCHARD IN HOOD RIVER VALLEY

DEVLIN & FIREBAUGH

LEADING DEALERS

MAIN OFFICE

SWETLAND BUILDING, PORTLAND, OREGON

BRANCH OFFICE

HOOD RIVER, OREGON

BETTER FRUIT

A MONTHLY ILLUSTRATED MAGAZINE PUBLISHED IN THE INTEREST
OF MODERN AND PROGRESSIVE FRUIT GROWING AND MARKETING

CHARACTERISTICS OF APPLE TREE ANTHRACNOSE

WRITTEN ESPECIALLY FOR BETTER FRUIT BY PROFESSOR A. B. CORDLEY

LESS than a decade has passed since those well versed in horticultural affairs were predicting destruction of the apple growing industry in the humid portions of the Pacific Northwest by a disease which was variously known as "canker," "dead spot" or "black spot." Nevertheless, in the last report of the Oregon State Board of Horticulture, President E. L. Smith and Commissioner Carson both express the firm conviction, based upon actual observation in sprayed orchards, that the disease can be satisfactorily controlled by the methods recommended in Bulletin No. 60 of the Oregon Experiment Station. The edition of that bulletin having long since been exhausted, the editor of "Better Fruit" has requested that I furnish their readers with a brief account of the disease and of the methods which have given such excellent results in controlling it.

Historical

Apple Tree Anthracnose is a disease of the apple bark which, so far as known, is confined to the Pacific Northwest. Whether or not it has been communicated to the apple from some of our native plants, is not known. It seems first to have been noticed about 1891 or 1892, and by 1893 or 1894 had attracted so much attention that, upon request of the Boards of Horticulture of Oregon and Washington, Dr. Newton B. Pierce, of the Division of Vegetable Pathology of the United States Department of Agriculture, was detailed to make an investigation of the trouble. Dr. Pierce spent some time investigating conditions in the worst infested regions, and although I am not aware that he published any detailed report of his investigations, he evidently obtained an approximately accurate insight into the nature of the disease. In a letter to the late Mr. J. M. Wallace, of Salem, Dr. Pierce wrote:

"My work in Oregon and later at this laboratory, has demonstrated one thing beyond a reasonable doubt, namely, that the apple canker so common in Oregon is a disease due to the action of a parasitic fungus. Inoculation experiments here have reproduced the disease in a typical form in perfectly healthy apple trees. * * * I have found the various spore forms, as well as the tree which probably forms the active host of the parasite in Oregon and Washington. It has also become evident that the fungus works mostly during the rainy season, and that infection of new trees may take place in the fall and during most if not

quite all winter. This shows that trees must be treated before the rains begin, and often during the winter, to prevent infection of new unaffected tissues."

In 1899, owing to repeated and urgent calls upon the Experiment Station for information regarding this disease, the

different natures. I therefore proposed for this particular disease the name Apple Tree Anthracnose, a name which has since become well established locally and in mycological literature, but which evidently is not so well established in our neighboring state, since in a recent bulletin Professor Lawrence, "in order to retain uniformity of names," proposes still another name, "Black-spot Canker."

Apple Tree Anthracnose attacks principally the smaller branches, those under two inches in diameter, although it also occurs upon larger ones and on the trunks of young trees. The character of the injury produced is well shown in Figures 1, 2, 3, 4. It usually appears first in the fall upon one and two-year-old wood, soon after the autumn rains begin, as small circular, sometimes slightly depressed, brown areas of the bark, which will continue to increase in number until mid-winter, the larger proportion appearing during the months of November and December. During the tree's dormant period, these diseased areas apparently increase in size very slowly, although the fungus penetrates to the cambium, in which it may spread considerably beyond the limits of the superficial canker; but with the advent of warmer weather in spring, with its induced physiological activities, they may increase in size rapidly until, under favorable conditions, the disease may

Contents

CHARACTERISTICS OF APPLE TREE ANTHRACNOSE, 13

COLORADO NATIONAL APPLE EXPOSITION, DENVER, 18

ERRORS THAT ARE MADE IN EVAPORATING PRUNES, 19

A WARNING AND ADVICE TO THE GRAPE GROWER, 21

A NEW METHOD OF MAKING ARSENICAL SPRAY, 24

AGRICULTURAL COLLEGES, EXPERIMENT STATIONS, 26

WHAT A MAN CAN DO ON A FIVE ACRE TRACT, 27

AN OPINION ON THE NATIONAL APPLE GRADING BILL, 28

SPOKANE NATIONAL APPLE SHOW PREMIUM LIST, 29

writer, in the absence of a regular plant pathologist, started an investigation, the results of which were published in the Bulletin No. 60 above mentioned, and in which the disease was definitely proved to be due to the attack of a particular fungus, which was described, its method of development indicated, and methods for its prevention suggested. Recently Professor Lawrence, of the Washington Experiment Station, has added the interesting information that the same fungus causes a rot of the apple, and that by artificial inoculation he has succeeded in producing cankers upon cherry, prune and pear trees.

As stated above, the disease was variously known as "canker," "dead spot" and "black spot." Ordinarily it is best to accept a common name when once well established, but in this particular instance we believed that, since there were three common names about equally well established, that confusion in the designation of the disease could best be avoided by adopting for it an entirely new name. This seemed all the more necessary by reason of the fact that all of the above names were applied indiscriminately to various diseases of widely



FIGURE 4—YOUNG TREE GIRDLED BY ANTHRACNOSE

invade an area several inches in diameter by the last of May or early June. At that time the increase in size of the canker spots and the energies of the fungus are thence devoted wholly to the production of spores. At that time the diseased areas are dark brown in color, markedly depressed and usually limited by ragged irregular fissures which separate the dead from the surrounding living tissues. (See Figure 2.) These dead spots vary in size from those not more than one-half inch in diameter to extensive areas three or four inches wide by six or eight inches long. Even larger diseased areas are sometimes produced by the union of two or more cankers.

It is difficult to form an estimate of the extent of the injury caused by this disease. To be sure, orchards have been completely ruined by it, but in the vast majority of orchards its presence is indicated only by more or less numerous ugly wounds upon the branches. Occasionally a single canker completely girdles a branch on the trunk of a young tree, thus killing at once its distal por-

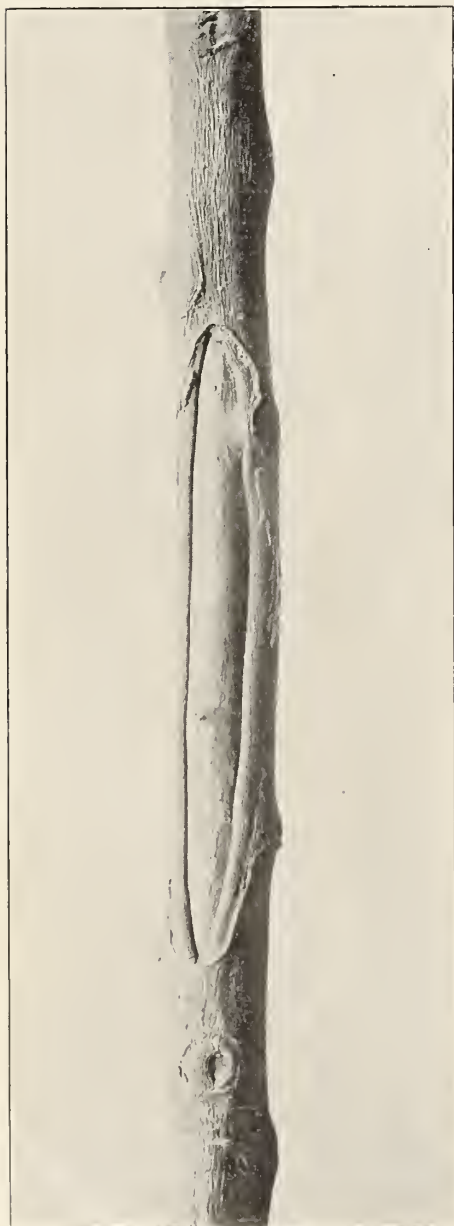


FIGURE 1—WOUND PRODUCED BY INOCULATION

tion (See Figure 4), but more commonly only a dead spot occurs, from which, in the course of a few months, the bark sloughs off, leaving an ugly wound which requires several years to heal. (See Figure 3.) When these wounds are at all numerous the branches are much disfigured, and are moreover greatly weakened. It is not at all uncommon, however, for trees which have been seriously injured to continue to bear fair crops of fruit year after year.

Many theories have been advanced regarding the cause of this disease, among which may be mentioned insect injury, sour sap, frost, sun scald, fire blight, etc., and indeed most of these causes may produce injuries which superficially resemble Apple Tree Anthracnose in its early stages. There is no longer any doubt however, that this disease is produced by a particular fungus, *Gloeosporium malicorticis*.

A few words of explanation as to what is meant by a fungus, may serve to make my meaning clear to some fruit growers who have given the matter little or no attention.

A fungus is a plant as truly as is the apple tree, the prune tree, the wheat plant, or any other plant upon which it may be growing. In this particular case it is very small—a microscopic plant.

Fungii differ from ordinary plants essentially in being much more simple in structure and in being devoid of chlorophyll—the green coloring matter of plants. Their seeds, which are called spores, are more simple and very much smaller than the smallest seeds of common plants, and are produced in almost inconceivably great numbers. The vegetative portion of a fungus, the part which in a sense corresponds to the roots, stems and leaves of ordinary plants, the part which absorbs the food materials and builds them up into new tissue and eventually produces the spores, consists of a mass of more or less branched white or colorless and very minute threads, and is called the mycelium.

The spores being so small and light are readily carried long distances by the wind, are washed about by the rains, and may also be carried by birds and insects and probably other agencies. It is by one or more of these methods that fungous diseases are spread from leaf to leaf, tree to tree or orchard to orchard. Over greater distances the spores may be carried on shipments of infested nursery stock, fresh fruits, vegetables, seeds, etc.

Should a spore fall upon suitable soil, such as the surface of leaf or fruit, and the conditions of heat and moisture be favorable, it will germinate—push out a delicate, slender, germ tube, or "rootlet." In the case of most parasitic fungii this germ tube soon penetrates the epidermis of the leaf or fruit or bark, and the mycelium develops in the underlying tissues entirely beyond the reach of fungicides.

If, now, one were to examine an anthracnosed spot of the current season's growth, one would observe that the bark is thickly set with minute pimples or pustules. These are acervuli and



FIGURE 3—A CHARACTERISTIC WOUND

contain the spores of the fungus. These acervuli begin to appear early in June. At first they appear as small conical elevations of the epidermis which are scattered more or less irregularly over the diseased bark. By the end of June they have increased considerably in size, and occasionally one may be found which has burst open, thus exposing to view the cream colored mass of spores, which, however, soon become dark colored. During July, August and September the acervuli become more and more abundant, and by the first of November a very large proportion of them have opened for the purpose of discharging their spores.

How carefully nature looks after her own and guards against needless waste is well illustrated by this fungus. Each acervulus contains thousands of spores, and were they free to be distributed by the winds of summer, countless millions would perish before the arrival of climatic conditions favorable for this germination. But the spores are not free. They are firmly held in a gelatinous mixture which is comparatively dry and hard during the warm summer months, but which, upon the advent of the fall rains, gradually softens and dissolves, thus slowly liberating the spores just when the conditions are most favorable



FIGURE 2—APPLE TREE ANTHRACNOSE

for their germination and growth. Once liberated, the spores are doubtless distributed by wind, rain and other agencies. A vast majority of the spores undoubtedly fall on uncongenial places and perish; but an occasional one may find suitable lodgment in a suitable place on the bark of some limb, and if the temperature and moisture conditions are right it germinates. The delicate germ tube penetrates the epidermis and after thus gaining access to the underlying tissues the mycelium ramifies through them, spreading in all directions, absorbing the nourishment upon which it grows and killing the surrounding cells. This distribution and germination of spores, with the consequent formation of new cankers, may continue from the time of the first fall rains until midwinter or later, but the most active period is during November and December. During the winter, as previously stated, the growth of the fungus and the consequent increase in size of the anthracnose spots is slow, but in the spring the mycelium takes on a renewed activity, which is shown by the rapid increase in size of the cankers. In May and June the fungus reaches the fruiting stage, and from that time on all its energies are devoted to the production of spores. The cankers then cease to increase in size and become surrounded by ragged fissures. Soon the mycelium dies, the wound begins to heal by the formation of new cellular tissue, and in the course of months the dead bark sloughs off, exposing the ugly wound.

We have stated above that the disease is caused by the fungus *Gloeosporium malicorticis*. It may be of interest to orchardists to know something of the evidence upon which we base the assertion. In brief, it is as follows: Spores were induced to grow in artificial cultures. As they germinated they were examined under the microscope, and



FIGURE 5—AN ORCHARD DISEASED WITH ANTHRACNOSE

when they had developed so that they could be seen by the unaided eye, they were separated from all other growths and transferred to other artificial cultures. This has been repeated many times and in different ways, to eliminate all sources of error. When convinced that no other living organisms were present in the cultures, a number of sections of apple limb were inoculated with this "pure culture" of the fungus. In about a week after these inoculations were made, slightly discolored areas were observed about several of the points of infection, and in three weeks these areas had developed all the characteristics of the disease. This was the

preliminary work. Later, twenty young apple trees in the college orchard were inoculated with similar cultures. Every tree developed a typical case of anthracnose. Figure 4 is from a photograph of one of these trees, which had been girdled by the disease and the top killed. Figure 1 is also a photograph of a section of one of these trees, taken about a year after the inoculations were made, to show the wound and the formation of cellular tissue. These experiments have been repeated many times, and almost invariably result in the development of typical cases of anthracnose.

In Bulletin No. 60, as a result of laboratory studies, I made the following recommendations: We have seen that the spores are developed and probably distributed during the late summer and fall months, and that they undoubtedly germinate after the fall rains begin. It is also known that bordeaux mixture and other copper compounds prevent the germination of the spores of fungi. We therefore infer that if the trees be thoroughly sprayed with bordeaux mixture or with the ammoniacal solution of copper carbonate, once soon after the fall rains begin, and again as soon after the leaves fall as possible, the germination of the spores will be largely prevented and the spread of the disease be thereby checked. It is not expected that such a process will exterminate the disease, but it is believed that it will so reduce its ravages that it can no longer be considered a menace to the apple growing industry. For the latter of the two applications mentioned above, bordeaux mixture, winter strength, should be used. For the former, bordeaux, of summer strength, may also be used, but if fruit is on the tree it would be better to use the ammoniacal solution of copper carbonate. Whichever spray is used should be thoroughly applied, and applied as soon as possible after the fall rains begin. The fungus cannot be destroyed



FIGURE 6—THE SAME ORCHARD SHOWN IN FIGURE 5, AFTER TREATMENT ACCORDING TO THIS ARTICLE, UNDER A. B. CORDLEY'S DIRECTIONS



INLAND EMPIRE GRAPE PRODUCTS

Grapes and wine exhibited by R. Schleicher at the Lewiston-Clarkston Fair, which received first prize. The varieties are Flame Tokay, Muscat, Cornichon, Malaga and Emperor. The grapes were grown in Mr. Schleicher's vineyard near Lewiston, Idaho.

by sprays after it has once entered the tissues of its host.

In addition to the sprayings recommended, we would advise owners of young orchards, or orchards but little diseased, to carefully cut out and paint over with strong bordeaux all anthracnosed spots, that may be observed. Old or badly diseased orchards can best be

renovated by pruning severely and spraying thoroughly.

Such excellent results have followed the adoption of the above recommendations in several instances, that I hesitate to modify them. I am inclined to believe however, as a result of later studies, that there is no necessity of spraying for this disease before the crop is harvested, par-

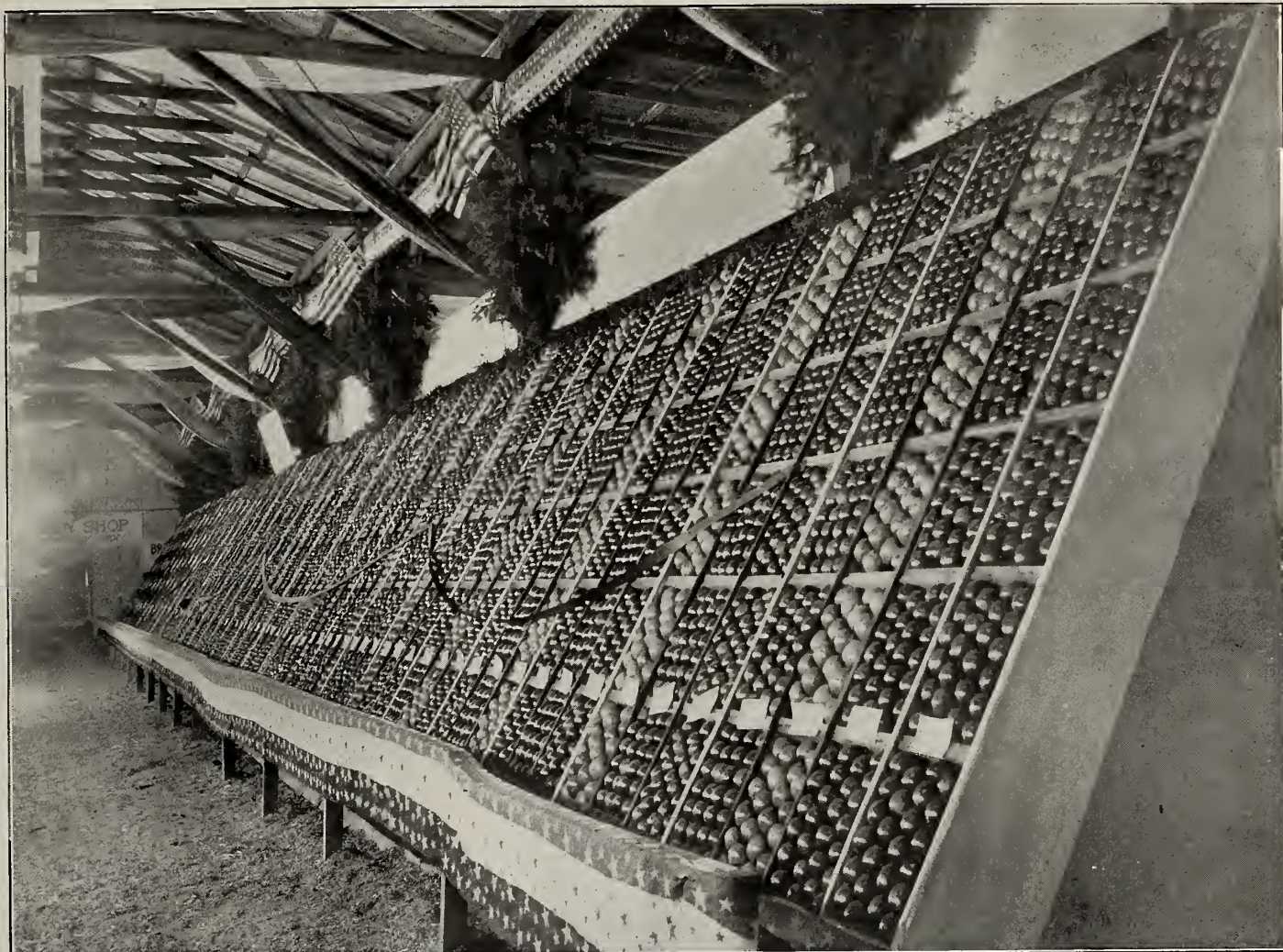
ticularly if the trees have been sprayed with bordeaux early in the season for apple scab. I believe now, that it is most important to have the trees thoroughly protected by a fungicide during November and December, and hence would recommend that a thorough application of bordeaux be made soon after the fruit is gathered, this to be followed after the leaves are off with another application of bordeaux or of lime-sulphur solution.

The results of fall spraying with bordeaux are very graphically shown in Figures 5 and 6. Figure 5 is from a photograph taken in the orchard of Eisman Brothers, of Grants Pass, Oregon. To quote from Mr. Carson's report in the Eighth Biennial Report of the Oregon State Board of Horticulture:

"Eisman Brothers own an apple orchard of thirty-five acres near Grants Pass, which in 1901 was so badly diseased with anthracnose that they were about to dig it up. Every tree in the orchard was diseased with this fungus. Nearly all of the tops of the trees were dead or dying. The vitality of the orchard was so low that it did not produce enough apples to pay expenses. The brothers worked faithfully, cutting out dead spots and dead wood during early spring months, but the fungus continued to increase. At my suggestion, Eisman Brothers began spraying with bordeaux early in the fall before the leaves were off the trees, as suggested in Professor Cordley's bulletin. The benefits of their first fall spraying were



PRIZE-WINNING EXHIBIT FROM OKANOGAN COUNTY, WASHINGTON, AT THE NATIONAL APPLE SHOW, SPOKANE, 1908



MR. HORAN'S WENATCHEE EXHIBIT AT THE NATIONAL APPLE SHOW, HELD AT SPOKANE, WASHINGTON, IN DECEMBER, 1908. REPRODUCED AS A SUGGESTIVE EXAMPLE FOR CARLOAD EXHIBITS AT THE COMING NATIONAL APPLE SHOW TO BE HELD AT SPOKANE NOVEMBER 15 TO 20, 1909

very pronounced. The spring following showed but very little new tissue affected with the fungus. Eisman Brothers followed up their spraying in the fall of 1902-03, and today (1904) their orchard is very vigorous and free of the fungus." (See Figure 6.)

In a recent letter Eisman Brothers state that these two photographs are of the same block of trees, but taken two years apart.

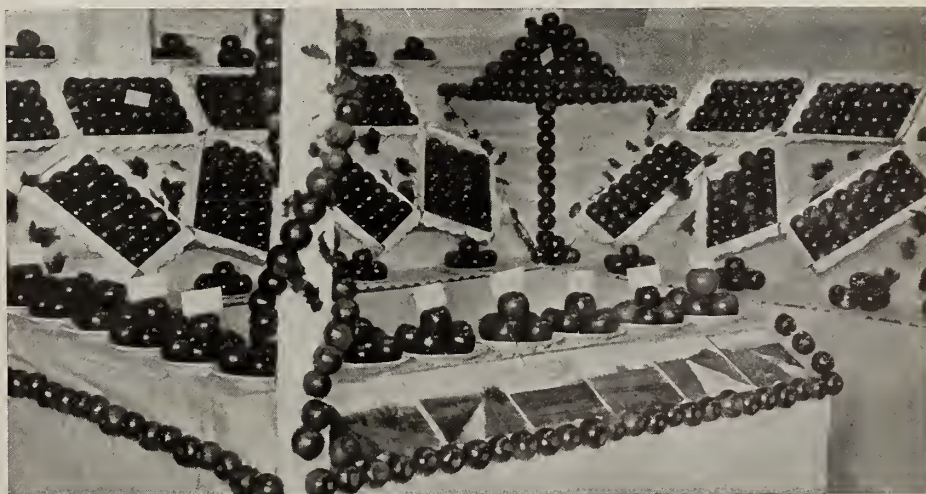
Several other striking illustrations of the beneficial effects of fall spraying for anthracnose could be mentioned, but probably enough has been given to at least convince one having a diseased orchard of the advisability of giving the method a thorough trial. Should such be the case I should consider it a great favor to be informed of the results, be they good or bad.

WILL GIVE BIG PRIZES

NOW that it is definitely announced that the Colorado National Apple Exposition is to be held, every grower should begin to get ready some of his best products. The prize list, as it is being arranged, is going to be one of the most attractive ever offered for a like show. For example, one prize is \$1,750 for carloads; \$1,000 for the best, \$500 for

the second, and \$250 for the next. Prizes like this will be given all through the list and in no case will the prize be unworthy of the exhibit. Every grower should be thinking of attending the exposition, as it will be a liberal education to him in the arts of packing and grading. He will have a chance to meet the jobbers and also some of the leading authorities on horticulture from all over the country.

The show will be held in the Denver Auditorium, a building known all over America, and surely no better place could be provided by any city of the country. The directors of the Apple Show are all representative men and are giving their time for the good that it will do the state, and there is no question but that their work will be rewarded by a most successful show.



DISPLAY OF OTIS ORCHARDS, OF SPOKANE VALLEY, AT NATIONAL APPLE SHOW SPOKANE, WASHINGTON

COLORADO NATIONAL APPLE EXPOSITION, DENVER

JANUARY 3 TO 9, 1910

THE popularity of the apple as a fruit is rapidly growing, and there never was a time in the history of the world when the people were more alive to the commercial value of this, our national fruit. So popular is the apple that large shows and expositions

last season, and while it was not carried on in the same large way as the Spokane show, it too, is to be repeated on a larger scale than before.

Now comes Colorado as the newest contender for honor for her apple crop. Colorado believes in the growing of

tion. The Auditorium seats 14,000 people and is owned by the city of Denver. The last national Democratic convention was held in this building, and it filled every requirement. No better place could have been secured for Colorado's National Apple Exposition.

The Denver Chamber of Commerce is backing the exposition, and is arranging a prize list that will be second to none offered anywhere in the country for similar purposes. The aggregate will amount to \$25,000 at least, and a prospect that it will be much more.

The grand prize will be \$1,750 in cash, offered for the carload exhibits. This is only a small part of the cash prizes however, and then there will be growers' supplies, implements, land, and, in fact, everything that goes with a first class exposition.

Entries are open to the world, and no charge for space to apple exhibitors. No charge for space will be made in storage, and arrangements have been made with the Denver storage people for the obtaining of these privileges free.

Colorado has watched with interest the growth of the world's apple industry, and has been especially interested in the success of the Northwest. Generally, it is conceded that the packing methods of the Oregon and Washington growers has been better than in Colorado, and a special invitation is extended to the Northwest to come down and exhibit her pack where Colorado growers will have an opportunity to profit by seeing it.



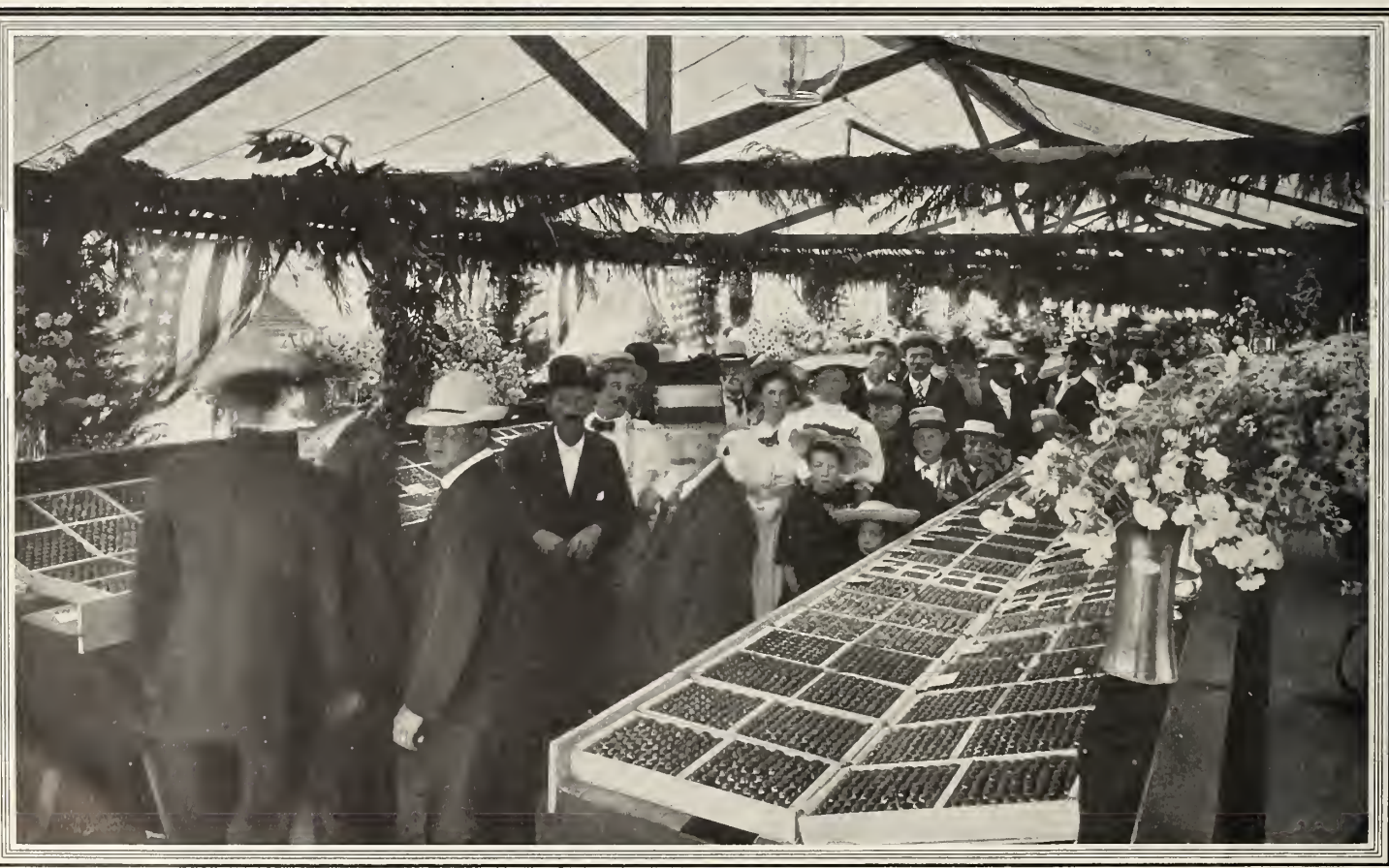
AN IDAHO EXHIBIT AT NATIONAL APPLE SHOW, SPOKANE, WASHINGTON, MADE BY PROFESSOR L. F. HENDERSON OF MOSCOW, IDAHO

are being given in various parts of the country where this fruit is the exclusive attraction.

Last year, at Spokane, Washington, the first great show was held, and proved not only a profitable undertaking for the promoters, but did more to advertise the Northwestern fruit sections than any other factor employed in advertising. A hundred thousand visitors attended the show and pronounced it a great success and worthy of repetition. Council Bluffs, Iowa, also had quite a horticultural show

apples, and has demonstrated her ability to cope with the rest of the world in this line. Colorado has some of the finest orchards and orchard lands in the world, and her products are well known. It is fitting then, that Colorado should celebrate her conquests, and in January, 1910, Denver is to be the scene of one of the largest, if not the largest, expositions of the kind ever held in the United States.

The Denver Auditorium, which is considered the finest building of the kind west of Chicago, is to house the exposi-



CHERRY DISPLAY AT SALEM FAIR, MARION COUNTY, OREGON

ERRORS THAT ARE MADE IN EVAPORATING PRUNES

ADDRESS OF J. T. BRUMFIELD, OF PORTLAND, AT STATE HORTICULTURAL SOCIETY MEETING HELD DECEMBER 1, 1908

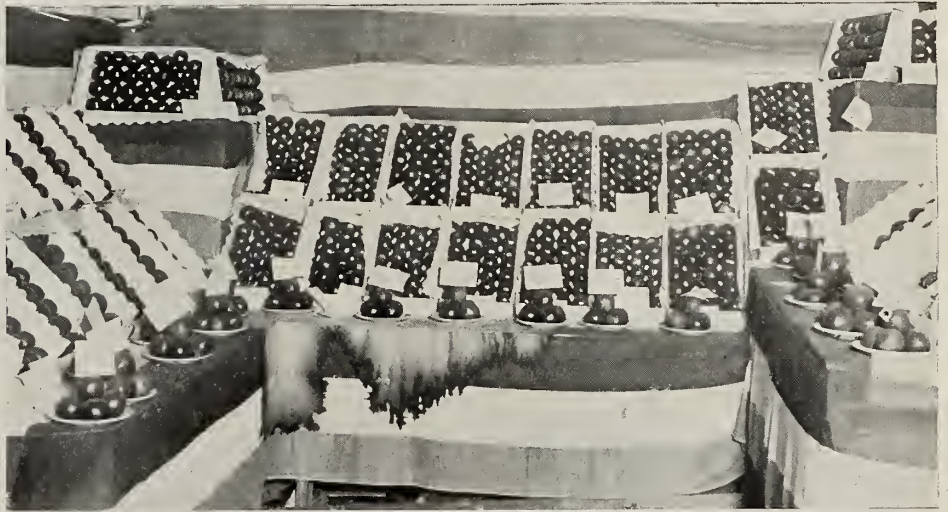
IN discussing the subject of errors in curing prunes I do so entirely from a jobber's and packer's point of view, and whatever I may have to say is from experience I have had as a jobber and packer of prunes.

There has been a marked advancement in the demand for a better grade of all kinds of goods. This is not all due to the prosperity that we have been enjoying for the past few years. The individual consumer has learned that it is more profitable to use the better grade than the cheaper, inferior quality. The state and national pure food laws, articles in the leading magazines and daily press have certainly done much towards creating a demand for good goods. For illustration I call your attention to canned goods. Twenty years ago you would find but few canned goods on the merchants' shelves, hardly enough to be noticeable. The canners have had their sad experience with poorly packed, inferior goods that failed to create a demand. Some years ago they turned their attention to producing a better quality. Now, as you enter the grocery store, you will see a big display of these goods, attractive labels and a quality that has created an enormous demand, establishing as an absolute fact, that without quality any commodity will fail.

And now I urge a better dried prune. There is no subject of more importance

than this. The success and prosperity of the industry depends upon it. I wish to discuss it under two headings: First,

its defects. A prune may be burnt, and yet look marketable. It may be partially decayed before drying, and appear all



APPLE DISPLAY FROM SUMMERLAND DISTRICT, OKANOGAN, BRITISH COLUMBIA, AT THE NATIONAL APPLE SHOW IN SPOKANE

the grower; and second, the packer—both of equal importance.

It would be a great deal easier and more pleasant for me to say that all of the prunes offered us were first-class, sound and well-cured; but they are not. Naturally, the Italian prune covers up

right. But neither of these are fit for use. The consumer tries them, creating a dislike. They will not use them again; therefore, the demand is injured, which tends to lower the price. Both the burnt and overripe stock should be condemned, destroyed and not allowed to enter the



DISPLAY OF APPLES GROWN IN GRANTS PASS, OREGON

market. I call attention again to a more serious trouble that we have to contend with, and that is, the under-cured stock. Unless the Italian prune is thoroughly cured it will mold, ferment, and, if put on the Eastern market, they will be rejected, sold at a cheap price, causing the packer a loss, trouble for the dealer, and the consumer tries to use an unwholesome article and becomes disgusted with our prunes. It is the duty of every grower of prunes to use nothing but sound fruit and then dry it thoroughly.

Some of the growers have said to us that we want thoroughly dried stock, so that we may gain weight in processing. This is a most serious mistake on their part. An under-cured prune will spoil, no matter whether processed or allowed to remain in natural condition. As to weight gained in processing, when prunes are properly processed the increase in weight is not worth considering. What weight is gained is lost in wastage in packing, grading and an excess of one per cent packed to cover shrinkage, as our goods are sold net weight.

The success of the industry depends as much on the packer as on the grower. Any packer who processes prunes with a profit in mind from gain in weight is surely doing the industry an injury as well as himself, as his goods will not give satisfaction—a feature necessary if he is to succeed. If all are not rejected he kills the demand for his brand.

Nearly the entire crop is now handled by the several packers. A well-dried,

sound prune, properly processed and nicely packed, keeps sound, sweet and glossy during the entire season. It is the duty of every packer to see to it that his work is done properly. If it is not so done the same disastrous result will occur as when the fruit grower neglects his work. Twelve years ago, when large quantities of prunes were shipped in sacks, it was a question whether the Oregon prune was a success or a failure. But new methods of handling were adopted, and if a rigid inspection had been carried out there would be no more risk in handling prunes today than wheat, oats, or any other farm commodity.

We note a marked improvement in the demand. A few years ago we found it difficult to induce the Eastern jobber to handle our prunes. Now some of them buy in large quantities each year, which is good evidence that they are pleased with them. There is yet room for a great



WENATCHEE, WASHINGTON, APPLES ON SALE AT SEATTLE

increase. This fact is quite noticeable, as our total average production is hardly one-half pound per capita for the United States, not figuring a fair quantity that go to Europe each year.

The prune industry of the Northwest is one of importance. An average annual yield represents a value of \$1,500,000 for the finished product. With a better quality and extreme care in packing, the demand could be greatly increased. A sound, well dried, properly processed, nicely packed Italian prune will build up a demand that will require more prunes than are produced at this time.



A VERY INTERESTING SCENE, SHOWING HOW OUR FRUITS ARE SOLD AT AUCTION IN GLASGOW, SCOTLAND
Two members of this firm, Mr. Simons and Mr. Shuttleworth, called at the "Better Fruit" office while making a tour of the Northwestern fruit districts

A WARNING AND ADVICE TO THE GRAPE GROWER

BY E. H. TWIGHT, INGENIEUR AGRICOLE, HORTICULTURAL ADVISER LEWISTON LAND AND WATER CO., LTD.

THE planting of European grapes on the Pacific Coast dates as far back as the early Spanish Missions of California. It is only in recent years it was found that these varieties could also thrive in certain favored sections of Oregon, Washington and Idaho. Many efforts were made at different times to establish the *Vitis Vinifera* (European grape) in the Eastern states, but they were never successful, as the *Vinifera* varieties cannot stand the attacks of the many fungi diseases under the moisture conditions and summer heat prevailing in the East. So California, with her climate so similar to that of the Mediterranean basin, had for years a monopoly of those types that made famous many wine districts of Europe, and also of those varieties of table and raisin grapes that made Spain and Asia Minor so well known to the gourmet.

However, just as our southern neighbor has been made famous by the wine of Sonoma, Napa and Livermore; by the Fresno raisins and the Sacramento Tokay, so will we develop specialized districts for table and wine grapes. The results already obtained have proved what excellent Tokays, Cornichons, Malagas and Muscats can be raised in the valleys of the Rogue River, the Columbia, the Snake and the Clearwater. Some of the wines made in the Lewiston-Clarkston district have attracted the attention of the connoisseur, and a great future is in sight for this branch of viticultural industry.

At this point, when a bright future is in view, it is only right to give a cry of warning.

The European grapes have one great enemy—phylloxera. Now is the time to prevent the introduction of that enemy in these states where viticulture is in its infancy. The writer is not a pessimist, but a close study of that pest in Europe, Africa, Australia and California, has given him a salutary respect for that minute pest, and he knows it will mean a saving of millions of dollars in the future if the introduction of this pest is held back as long as possible.

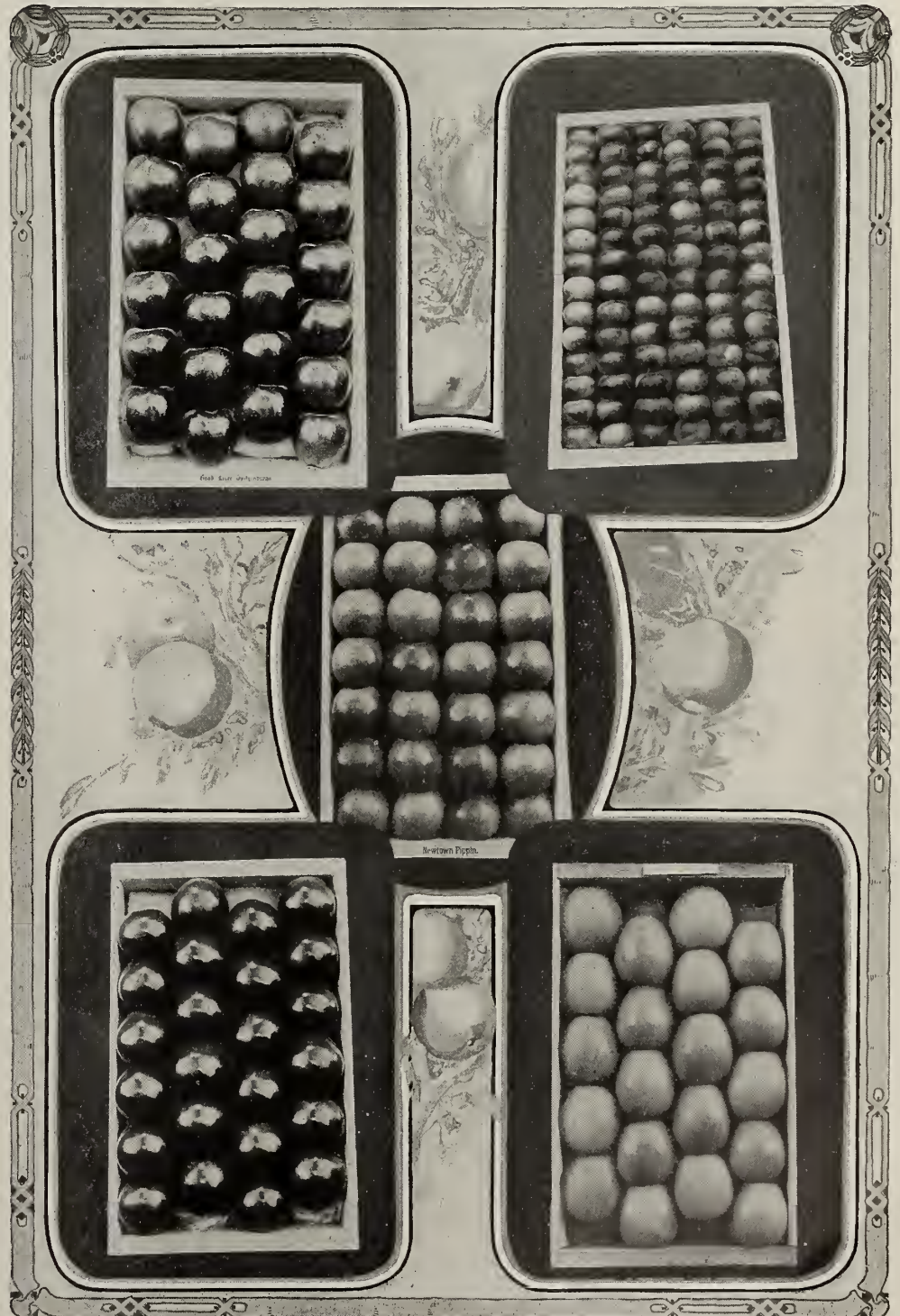
The phylloxera has been studied more especially in France, where a government commission, under the leadership of Professor Cornu, was appointed for that purpose forty years ago. The report that was published then is to this day the standard quoted by all other authorities on the subject. The life history of the insect shows four forms: (1) gall insect, (2) root insect, (3) winged insect, (4) sexual insect. The female insect deposits a single winter egg in the cracks of the old wood or under the old bark; this egg hatches in the spring and a gall insect appears. If it happens to be on a variety of vine it likes (such as most American varieties), this insect will live on the leaves, producing galls and multiplying enormously under their shelter; some of the following generations going down to the roots and becoming root insects. If the variety

of vine is not congenial (European varieties), the gall insect migrates immediately to the roots, feeds on these and produces swellings and tubercles; following this attack the roots start to decay and the vine dies. The root insects also multiply, but not as rapidly as the gall form. Some time during the summer, if conditions are favorable, some of the root insects pass through a nymph stage, come to the surface of the ground and are transformed into winged insects that may spread the pest far

away in the direction of the prevailing winds. The winged insect lays eggs under the leaves, and from these hatch the sexual insects that complete the cycle.

This complex life history shows how difficult it is to destroy the insect when it has a hold in a locality. The root form cannot be destroyed in the ground, and the winged form may at any time through the summer scatter colonies in the surrounding territory.

As phylloxera is seldom detected



PRIZE BOXES AT THE BIENNIAL FAIR, HELD IN HOOD RIVER, OREGON
Upper left hand, 96 Spitzenbergs, E. H. Shepard; upper right hand, Lady apples, A. I. Mason; center, 112 Newtowns, J. L. Carter; lower left, 96 Jonathans, P. S. Davidson, Jr.; lower right, 80 Ortleys, J. M. Elliott, Mosier.



RASPBERRY FIELD, YAMHILL COUNTY, OREGON

before the attacks are quite severe, it has had time to spread to all the neighborhood before the eradication is started and this usually fails, even under regulations such as Germany tried, and of such a stringent nature that they could never be enforced in this country.

The attacks of the insect on the roots, although weakening the vine greatly, would not cause such a rapid death if decay did not set in soon after the main roots are attacked. In rich soil, and especially with irrigation, when rootlets

are sent out in large number, the vines may last a little longer, but death follows after a time even under the most favorable conditions. The ravages of phylloxera have destroyed a large portion of the old vineyards of France, Italy, Spain, Switzerland, Austria, Russia, and even of Australia and California.

This review will show that a warning is needed at this time, and the life history of the insect shows clearly that the main danger of introduction comes from the rooted vines that are being imported

from California and from the Eastern states. Oregon, Washington and Idaho should be in arms against such importations, and the horticultural laws should absolutely forbid the importation of rooted vines from all other states or foreign countries. It is impossible to disinfect rooted vines so as to destroy phylloxera without also killing the vines.

As for cuttings, they could carry gall insects or winter eggs, but as cuttings usually are made from one-year-old wood, as that wood is very smooth, it is seldom that a winter egg can be found on it. Fumigation with carbon bisulphide easily destroys any eggs or insect present, when no protection is given to these by old bark or root hair. Again, as the gall form is seldom found on the *Vitis Vinifera*, cuttings from these would be free. Therefore, the law should provide for careful fumigation of cuttings made from one-year-old wood, and no cuttings made from older wood should be passed. The fact that a shipment has a tag declaring that it has been fumigated is not enough, as it is not a guarantee of the thoroughness of the work, and it is safer to repeat the treatment and be sure that the work is done right.

Half a century of experiment by the best experts in the world have failed to bring out a remedy against phylloxera, and when the vineyards are destroyed the only way to start another one is to have the European varieties grafted on resistant stock. This is an expensive method, but some time in the future it will probably be found to be a necessity in all vineyard districts of the world. It is rather a complex problem to know what stock to use in each district, as the question of adaptation of stock to soil is closely connected with the resistance



WINTER SCENE, GRAND VALLEY, COLORADO



PEACH ORCHARD, DILLEY, WASHINGTON COUNTY, OREGON

of such stock to phylloxera. Many years of experiments are needed for that, and the agricultural experiment stations of Oregon, Washington and Idaho ought to be urged to start now their research to test the adaptation of different resistant stock to the soils of their different vineyard districts. In France, where most of the original work along that line was started, some districts had to be replanted two or three times before the right stock was found. In California many failures followed the ignorance of vineyardists regarding that important problem of the re-establishment of vineyards on resistant stock.

Those importing Eastern varieties with the idea that they are resistant, may also find to their sorrow, that many of the varieties which under the climatic conditions of the East may bear a crop and withstand the attacks of the phylloxera, will die when in a semi-arid climate after a few years of attacks from the same insect.

We should profit from the world's experience, so as to prevent the introduction of phylloxera for many years, and when it becomes a local problem the solution will have been worked out and the remedy be at hand.

◆ ◆ ◆

SO enthusiastic did the International Apple Shippers' Association members become when they received word that Colorado was to have a great expo-

sition, that they voted unanimously to give a loving cup as a prize from their association. At the time that the word was received the shippers were in convention in Buffalo, N. Y. The cup will be a very valuable addition to the premium list and will be hotly contested for, as it will, in all probability, be the only premium offered that will savor of being international in scope. This act of

the International Apple Shippers' Association testifies to the popularity of the Colorado apple, and also in the belief of the jobbers in the success of an exposition of this kind in Colorado this year. The regular premium list will contain an announcement as to what sort of an exhibit this handsome cup will be offered for. The dates of the show are now fixed for January 3 to 9, 1910.



POMONA RANCH, DAYTON, WASHINGTON

J. L. Dumas, president Washington State Horticultural Society, proprietor. One hundred acres, trees ten to thirteen years old.

A NEW METHOD FOR MAKING ARSENICAL SPRAY

BY E. H. TWIGHT, SUPERINTENDENT OF HORTICULTURE, LEWISTON LAND AND WATER COMPANY

THE great success of the arsenical sprays in fighting most leaf-eating or fruit-eating insects was brought out by the careful and accurate investigations of the agricultural experiment stations of the United States and by the broadcast publications of these investigations. Everybody interested in fruit growing has been able to secure some knowledge on the subject through those bulletins.

The result of this knowledge of the use of arsenical insecticides has brought of late among the public a certain feeling of uneasiness as to the possible results on the public health of this wholesale arsenical spraying; so much so, that a great deal of experimenting has been done to try and quiet this fear. Considerable apprehension also has been felt as to the possible poisoning of the trees by the accumulation in the soil of arsenic, and of late also of lead.

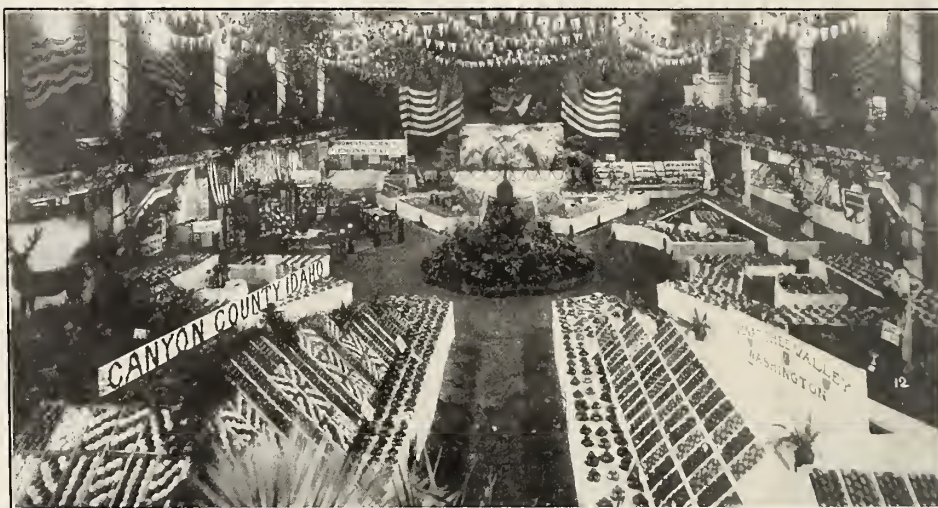
In order to follow this question exactly, it must be remembered that through oxidation arsenic is transformed into extremely toxic compounds of arsenious or arsenic anhydrides that combine with the metals to form arsenites or arsenates. Among these salts, some, such as arsenate of soda and of potash, are soluble in water; others, such as combinations of lead, iron, copper or lime with arsenic, are insoluble.

The soluble salts are extremely effective in poisoning insects, but unfortunately cause burning of the foliage, even in solutions hardly strong enough to have much insecticide value. This has, to a great extent, been overcome by the proper use of lime with these salts, but even when no burning of the foliage takes place there seems to be a depress-

ing effect on the vegetation due to these salts.

The insoluble salts are used in suspension in water; when bought ready made

not much weight, as it is no more difficult to prepare arsenate of lead than it is to prepare bordeaux mixture or lime-salt-sulphur spray.



GRAND VIEW NATIONAL HORTICULTURAL CONGRESS, COUNCIL BLUFFS, IOWA
DECEMBER, 1908

To be held at same place this year from November 15 to 20. Washington and Idaho exhibits prominent in foreground.

they are used by simply stirring them in water and keeping them in suspension with an agitator. They can, however, be made to great advantage by the orchardist himself, by double decomposition of the salts entering into their composition. The first method is more simple; the second is cheapest, and the precipitate obtained remains better in suspension; however, when power outfits are used the stirring is so thorough that this last advantage can hardly be taken into account. On the other hand, the objection as to the difficulty of preparing has

Taking the arsenate of lead as an example, the usual method consists in dissolving eight ounces of arsenate of soda in a gallon or two of water and pouring into this solution a solution containing twenty-two ounces of lead acetate. A light white precipitate of arsenate of lead is formed and the liquid is made up to one hundred gallons. Sometimes a few pounds of glucose are added to increase the adhesive quality of the spray or act as a bait. There must be a slight excess of lead acetate to decompose all of the arsenate of soda, and it is best to use a test paper made from filter paper dipped in potassium iodide. This can be procured at any drug store. The paper should turn yellow. This is no more difficult than the use of a test paper in making bordeaux mixture, a common practice with the more careful fruit growers.

The very great value of arsenate of lead against all leaf insects, its convenience, and the fact that even in strong solutions it does not burn the foliage, has made this material gradually displace all the other arsenical sprays. But the general distrust of the public against fruit and vegetables that have been sprayed with the arsenical solutions has been largely increased by the fact that they now have a fear of lead poisoning to add to the previous fear of arsenical poisoning. The same danger applies also to the



SCENE AT SPOKANE NATIONAL APPLE FAIR. EXAMPLE OF BOOTH ARRANGEMENT

trees, through the gradual storing of arsenic and lead in the soil of orchards. These facts are of such importance that in France there has been considerable talk of absolutely forbidding the use of lead arsenate in all orchard and truck garden work. This has come about also as the result of some unfortunate mistakes due to the whitish color of the arsenate of lead.

Two French scientists, Vermorel and Dantony, to overcome these objections started some years ago to investigate all of the arsenical compounds, and for the last three years they have carried out extensive tests with ferrous-arsenate and have met with great success. They prepare this compound as follows: Twenty ounces of arsenate of soda are dissolved in five gallons of water, making solution A. Twenty ounces of iron sulphate are also dissolved in five gallons of water making solution B. Solution B is poured gradually into solution A, stirring the mixture all the time. Towards the end of the operation the material should be tested with potassium ferrocyanid test paper, and when this turns blue no more solution B should be poured in. The proportion given above would be correct and give a nearly neutral product if the commercial salts were pure, but as they vary somewhat, it is better to make this test, as it is important not to have a too great excess of iron sulphate in solution. The combination thus obtained is diluted to fifty gallons, giving a spray containing about ten ounces of ferrous arsenate; besides the ferrous arsenate this spray material contains also some sulphate of soda and ferrous hydrate. The ferrous arsenate, when in contact with the air, turns greenish and becomes ferrous-ferric arsenate; in contact with the air the ferrous hydrate turns to ferric hydrate, which is the best antidote against arsenic poisoning. The general color of the spray material is a dirty

green that cannot be mistaken for any other product on the farm.

In comparative tests made by Vermorel and Dantony, they found the spray very adhesive; the best results being obtained when the dilution of the component salts was as given above before mixing. It is a well-known fact that the degree of dilution is of great importance when preparing bordeaux mixture, and so is it here.

Even when the spray was used in proportion twice stronger than that given above, no burning of the foliage resulted; while, even at half that dilution

the effect as an insecticide was very satisfactory, equaling in all respects that of the arsenate of lead. The foliage of the trees sprayed with this material always looked healthier and of a darker green, a well-known effect of iron on vegetation.

The principle advantages of this spray would then be: Insecticide value, freedom from burning effect and adhesive power as good as arsenate of lead; the characteristic color preventing any mistakes being made; replacing of the poisonous lead by iron, having a beneficial effect on vegetation; presence of an antidote alongside of the poison, if such a possibility as poisoning should occur. Probably the most important advantage would be the cheapness of the product, owing to the cheapness of sulphate of iron as compared with acetate of lead.

◆ ◆ ◆

THE value of the apple as a food can scarcely be estimated, and very few people realize how many different ways there are in which this fruit can be served. How many of us remember the apple pies that we used to have? Let us see—there were open-faced, cross-bar and kiver-lid. Gee! but they were good! And then, do you remember the dumplings, the baked apples and cream, the apple tarts, the apple sauce, the apple jelly, and, oh, yes, do you remember we the apple butter and marmalade we used to smear our bread with? Golly! don't your mouth water just a little! Well, there is one way you can be a kid again and enjoy all this, and that is by attending the demonstrations at the Denver Auditorium during the week of January 3 to 9, 1910, when the Colorado National Apple Exposition is going on. Most everyone who ever saw an apple is getting ready to go, and you'll be awful lonesome if you stay at home. I'll expect to meet you there the first day.



AUDITORIUM BUILDING, DENVER, COLORADO, WHERE THE COLORADO NATIONAL APPLE EXPOSITION WILL BE HELD, JANUARY 3 TO 9, 1910



PRUNE ORCHARD, POLK COUNTY, OREGON

AGRICULTURAL COLLEGES, EXPERIMENT STATIONS

IMPRESSED with the agricultural promise of the Pacific Northwest, the delegates to the National Convention of the Association of American Agricultural Colleges and Experiment Stations have returned to their homes after holding a week's convention in Portland. The agricultural experts in attendance placed themselves on record and gave a very high opinion of the soil possibilities of Oregon, the chief farming sections of which they were enabled to visit by special trains operated for them by the Portland Commercial Club.

All were surprised at the fertility of the Willamette Valley and the evident future of the district in diversified agriculture. Hood River Valley, too, where fruit growing has been reduced to an exact science, impressed the experts. They remarked not only on the agricultural richness of the state, but on the spirit of co-operation and enterprise here that act for the best interests of the farming sections.

One day was spent in the Hood River district, where orchards that are claimed to be the best in America and the despair of fruit growers elsewhere, were inspected by the college instructors and

their interest was marked. The following two days were taken up by excursions to all parts of the Willamette Valley, Dundee, Independence, Albany, Corvallis, Chemawa and Salem were visited, with a view to giving the excursionists a good idea of the varied farm products of the valley. At Dundee English walnut groves and large prune orchards were visited. At Independence hop fields were viewed; while at Corvallis the state agricultural college was inspected. At the other points, general farming of a diversified nature was studied. All traveling was done by daylight, so that the whole country could be seen to advantage. So highly pleased were the excursionists with the trip that they passed a resolution of thanks to their hosts and in addition made statements of what they thought of the country visited.

Among the many kindly things said by the party, the following are a few:

E. Davenport, dean, College of Agriculture, director of Experiment Station, University of Illinois.—I have been impressed by the unexampled opportunities of the Hood River and Willamette Valleys and the degree to which the people of the West specialize industries and have developed co-operative methods in producing, grading and marketing their products.

J. D. Tower, Laramie, Wyoming, director Experiment Station, professor of Agriculture and director of Farmers' Institutes.—I congratulate the state on its marvelous successes in the past and the promise of its unbounded future prosperity.

L. G. Carpenter, professor Irrigation, Engineering, director Colorado Experiment Station, Fort Collins, Colorado.—This opportunity to see the state has strengthened earlier impressions of its potential possibilities.

W. E. Stone, president Purdue University, Lafayette, Indiana.—I am impressed by the spirit of Oregon people. Their energy and optimism, their co-operative efforts to promote the welfare of the state on broad lines is noteworthy.

Charles E. Thorne, director Ohio Experiment Station, Wooster, Ohio.—Ever since I have heard of this section of the country I have looked upon it as a land of opportunity, but I was not prepared to find such manifold opportunity as my visits to this section have revealed. With its fertile soil, its enterprising people and the great and growing market at its door, it is destined to become one of the garden spots of the earth.

Arthur Goss, director Indiana Experiment Station.—The fact that the soils of the Willamette Valley and other sections of Oregon contain very much more phosphorus and other essential elements of plant food than the soils of our Eastern states means much for the future of the state. The outlook is very bright.

W. Lee Amos, director Maryland Farmers' Institutes, of Benson,

Maryland.—We return impressed with your delightful climate and bountiful soil, together offering opportunities not seen before to young men to make homes and



WAU-GWIN-GWIN FALLS
Hood River, Oregon

gather about them what will make old age days of luxury and pleasure.

A. B. Storms, professor State College of Agriculture, Ames, Iowa.—Resources natural and boundless hospitality of her people equaled only by her climate; climate delightful, and withal a contagious optimism that makes things go and grow. Who would not live in Oregon!

Thomas F. Hunt, dean of the School of Agriculture and director Experiment Station, Pennsylvania State College, Pennsylvania.—All places have advantages and disadvantages. Northwestern Oregon seems, however, to be blessed with an unusual number of advantages. In its material resources, in its climatic conditions, and in the intelligence, patriotism and energy of its people, it is especially fortunate.



MOUNT HOOD, 11,025 FEET. ALWAYS COVERED WITH SNOW. AT THE UPPER END OF HOOD RIVER VALLEY



G. A. THOMAS' CHERRY TREE

Which produced over 1,100 pounds of cherries in 1908. Mr. Thomas received a gold medal at the Lewis and Clark Exposition on cherries from his orchard in the White Salmon Valley, Washington

WHAT A MAN CAN DO ON A FIVE ACRE TRACT

BY WESTON ALLEN, OF YAKIMA VALLEY, WASHINGTON

WHAT can a man do on ten acres? is being answered right along. Possibly not on ten acres outside of the Oregon country, for elsewhere all conditions are not favorable.

covered, even last year, that five acres of fruit land would make any family a nice, self-sustaining home, and that the task of taking proper care of it is a snap. Why, I can do better than when I

received from four dollars to four and a half dollars a day without any investment at all, and then have plenty of time to enjoy life as I go along. This year I have more than six dollars a day as net profit on my work—and at times I was really ashamed of myself for taking life so easy.

"I will add forty acres to my farm this year, if I succeed in making the deal for an adjoining tract. If not there, I will buy ten acres somewhere else in the valley and develop it; then sell or

lease the one I have now. My peach and apple trees averaged me about thirty dollars a tree, and it cost me less than eight dollars a tree to take care of them and market their product. I charged all of my work and my farm expenses against the fruit trees, but I raised a very nice garden and had vegetables to sell. My chickens, to which Mrs. Allen devoted her time successfully, turned in a handsome profit. I raised six pigs to marketable hoghood and sold four of them. I keep a cow and a horse, and yet, outside of the things I sold from my garden and the hennery, I made over \$2,200 clear a year. The orchard will do better than that next year, if conditions are equally as good.

"I have succeeded in interesting a number of my former neighbors in Tacoma, of whom over a thousand work in the Northern Pacific car shops. Many of them will be here next year, a few of them having already come and investigated for themselves. Every one of them has been pleased with the situation; two of them bought ten acres each and the others will arrange their affairs to enable them to do likewise early in the spring.

"It beats working for wages at any trade. And then one owns his home and it is becoming more valuable all the time."

◆ ◆ ◆

THE one hundred and seventy acres owned by W. H. Stewart, son of J. H. Stewart, who is frequently spoken of as the father of the fruit industry of the Rogue River Valley, has been bought by George H. Daggett. The place consists of forty acres planted to seven-year-old Newtowns and Spitzenbergs, sixty acres in five-year-old pears, Bartlett, Howell, Beurre Bosc, Anjou and Comice. The remaining seventy acres are not planted to fruit, but are in hay at present. This place is considered one of the finest in the valley. The price paid was \$85,000. The purchaser is from Minneapolis and is spending considerable money in remodeling and improving the place in every possible way for a home.

◆ ◆ ◆

PLANT SIBSON'S ROSES.—Good fruit grows only on good trees; also good roses grow only on good bushes. The best of either is the cheapest, and the beautiful is as useful as the useful and sometimes more so. Hundreds of homes will want roses this fall. The *Sibson Rose Nurseries* (which make an exclusive specialty of rose growing) carry one of the finest and most comprehensive collections in the United States. *Acres of Roses* in splendid quality. Special attention to orders by mail. Shipped only by express. Catalogue free. Office and nurseries, 1180 Milwaukie avenue, Portland, Oregon.



R. H. WEBER BARTLETT PEAR ORCHARD, THE DALLES, OREGON

Four years ago Weston Allen, a workman in the car shops of the Northern Pacific Railroad Company at Tacoma, Washington, where he received four dollars a day, became the owner involuntarily of five acres of Yakima fruit land, in the neighborhood of Sunnyside, and, through the importunity of his wife, he abandoned his trade to become a farmer in a small way. He had acquired the land by loaning the money necessary to buy it to the man who originally purchased it, says a Yakima paper.

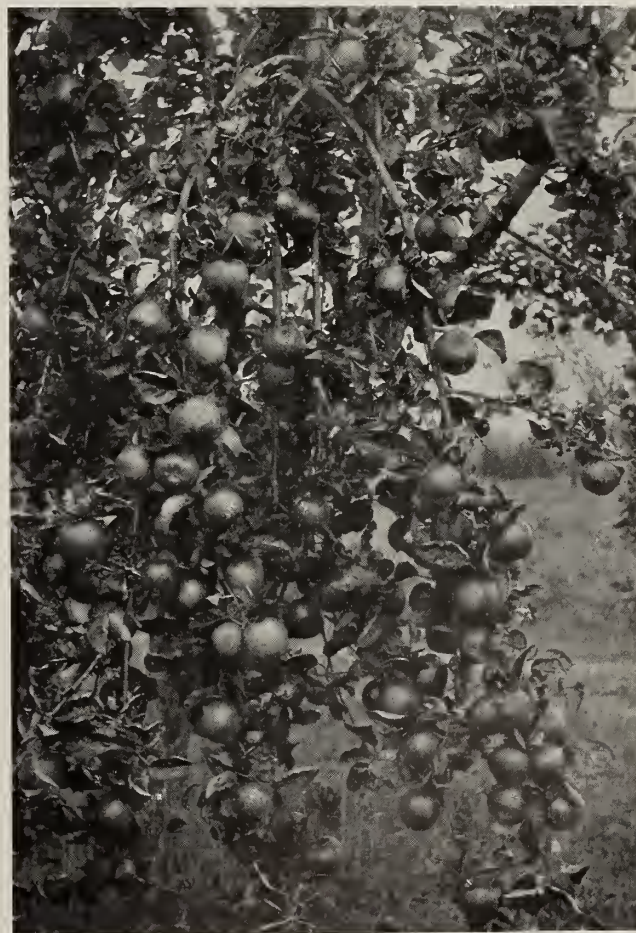
Mr. Allen confesses that he quit his trade with much doubt and reluctance, because he feared that five acres would not make a farm of sufficient acreage to support his family. He has been most agreeably undeceived, however.

While in the city recently, making his purchases for the season, Mr. Allen confided to a friend that he had made this year a little over \$2,200 from three acres of fruit on his five-acre farm, devoting the other two acres to house room, chicken run, barn and a garden.

"I was never more surprised in my life," said Mr. Allen, "than when I dis-



PICKING APPLES, ROGUE RIVER VALLEY



HOW APPLES GROW IN COLUMBIA COUNTY, OREGON

AN OPINION ON THE NATIONAL APPLE GRADING BILL

BY LOUIS ERB, CEDAR GAP, MISSOURI

REFERRING to Mr. C. B. Shafer's letter, which appeared in a recent issue of the Fruit Trade Journal, I will say to him—as I have indicated in former communications—that it is my honest opinion that a national law for grading apples is not practical. It is far better that the trade and growers' organizations establish a standard grade for No. 1 and No. 2 apples, which would be as binding in enforcing contracts before state or federal courts as any laws found on the statute books, and I will, therefore, not attempt to make any suggestions to amend or change any of the provisions of the "Lafean Apple Bill," as requested by him. To establish by law standard sizes for packages is all right, and no reasonable man can object to that. I am satisfied that a large majority of the dealers, as well as the growers throughout the country, share my views on this question, and for an example I will quote from a letter I have just received from one of the ex-presidents of the National League of Commission Merchants, that old "war horse" and most sensible gentleman, Mr. W. S. Gavan, of Baltimore. He says:

"In reference to the Lafean apple bill, as to that portion referring to the grading of apples, let me say, what in the devil does Lafean know about grading apples? As to fixing a standard package, that may be all well and good, but until Mr. Lafean can have some bill passed in Congress regulating the elements and size that each apple tree should produce, he had better let grading of apples alone, as he might as well attempt to present a bill to Congress regulating the sex that each mother should produce as to regulate apple sizing. It appears to me as

if the producers and the buyers can best attend to this matter. God made trees to bear little apples, medium apples and big apples, and how can Mr. Lafean get a three-inch apple off of a tree that never produced an apple over two and a half inches? Who sent this statesman to



JOHN DENNIS

Of Dennis & Sons, London, England. A recent visitor at "Better Fruit" office.

Washington to regulate sizing of apples, anyhow? Does he come from Missouri? To be a little more practical, in my opinion this regulating the sizing and packing of apples should be left to those interested and those who have more knowledge of the business than this Mr. Lafean."

For Mr. Gavin's benefit I will state that old Missouri did not send Mr. Lafean to Washington. The great state of Pennsylvania, where in certain counties they still vote the Democratic ticket for Andrew Jackson, is entitled to that distinction. There is no law, as Mr. Shafer knows, for grading peaches, oranges, lemons, strawberries, etc., and yet one hears of no complaints in recent years. Why? Simply because growers and shippers have found out it does not pay to grade and pack any other way but properly and honestly. It is now almost so with apples, and will be more so every year, for the same reason, that "honesty is the best policy."

I have heard of no complaint regarding the grading and packing of last season's apple crop, whether coming from New York state or the Far West. From reading the trade papers I judge that every dealer who "plunged" is wearing a smile and taking a "smile," all of which is indicative not only of a plethoric purse but of a contented mind as well.

I admit that there was considerable bad grading and packing done in the fall of 1907, in New York and some of the Eastern states, but that was largely the fault of the buyers, who encouraged it and were crazy to take anything that

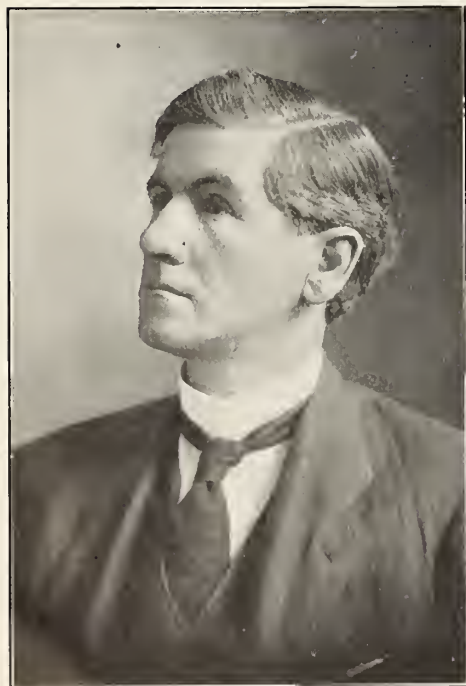
looked like an apple, because they believed there was a bonanza in sight. When, however, later on, it turned out that the apple deal of that season did not prove a bonanza but a regular boomerang, then the howling commenced, and the agitation for a national apple law as the ne plus ultra panacea for all the ills of the apple business took root and has so far flourished in a measure, but I am inclined to believe, by the time summer is over Mr. Shafer will see it meet the same fate that has met some of my Ben Davis trees that I planted on the wrong hillside. If I am not in error, the International Apple Shippers' Association has an established grade for No. 1 and No. 2 apples, and if that is not entirely satisfactory, I would rather see it amended and improved than bother with the Lafean bill. Let President Wagner bring the matter up at the next convention, with suitable suggestions as to what is best for dealers and growers alike and the apple industry generally. A delegation representing the National League of Commission Merchants, Western Fruit Jobbers' Association, and growers' organizations, should be present and be permitted to take part in the discussions. Mr. Shafer will find that a national law with unreasonable penalties and a lot of United States inspectors nosing around in a legitimate business is no more popular with the trade than it is with the growers. I, therefore, suggest that he mend his ways, reform, and join the church, like I resolved to do.

◆ ◆ ◆

Bandon, Oregon, June 11, 1909.
Better Fruit Publishing Company:

Dear Sirs—Your magazine is a great source of valuable information. Every intelligent fruit grower should become a subscriber for it. Value received in full is a small expression for its merits.

Yours very sincerely,
N. G. Pohl.



AUGUST WOLF

Director of Publicity, Spokane Chamber of Commerce, Second National Apple Show, and Eighteenth National Irrigation Congress



REN H. RICE

Secretary and Manager of Second National Apple Show, Spokane, November 15-20, 1909

SPOKANE NATIONAL APPLE SHOW PREMIUM LIST

CLASS ONE—CARLOAD COMPETITION CAPITAL PRIZE \$1,500 CASH

No. 1. Grand prize contest of National Apple Show, open to the world, in carload competition. There may be one or more standard commercial winter varieties packed in barrels or boxes, but 210 barrels or 630 boxes constitute a carload. Any number of boxes or barrels may be shipped, if the shipper uses a large car, but only the prescribed number of boxes or barrels can be exhibited in this class. Exhibitor must be owner, lessee or authorized agent of land where the apples were grown, and must give sworn statement on same when making entry. In making the award judges will consider, first, value of the varieties for the purposes to which they may be adapted; second, color, size and uniformity of fruit; third, freedom from marks of insects and other blemishes; fourth, pack; in accordance with rules of the American Pomological Society. First prize—\$1,000 cash and gold medal banner. Second prize—\$500 cash and silver medal banner. Third prize—Solid silver loving cup and National Apple Show diploma.

Oregon-Medford-Hood Special—Barrel of spray for each exhibitor. The Oregon Spray Company of Portland, Oregon, the Hood River Spray Company of Hood River, Oregon, and Medford Spray Company of Medford, Oregon, have combined in giving as an additional prize to each and every exhibitor in the carload class a fifty-gallon barrel of Niagara lime-sulphur spray.

No. 2. Elliott Winesap Carload Prize—For the best straight carload of Winesaps, containing 630 boxes or 210 barrels, scored against all other full carload exhibits of Winesaps. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 3. Elliott Rome Beauty Carload Prize—For the best straight carload of Rome Beauties. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 4. Elliott Wagener Carload Prize—For the best straight carload of Wageners. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 5. Dumas McIntosh Carload Prize—For the best carload of McIntosh. First prize—\$250 cash, donated by J. L. Dumas, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 6. Dumas Jonathan Carload Prize—For the best carload of Jonathans. First prize—\$250 cash, donated by J. L. Dumas, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 7. Elliott Spitzenberg Carload Prize—For the best carload of Spitzenbergs. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 8. Elliott Yellow Newtown Carload Prize—For the best carload of Yellow Newtowns. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 9. Dumas Gano Carload Prize—For the best carload of Ganos. First prize—\$250 cash, donated by J. L. Dumas, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 10. Elliott Delicious Carload Prize—For the best carload of Delicious. First prize—\$250 cash, donated by Howard Elliott, and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

No. 11. For the best carload of any other standard winter variety not mentioned in the foregoing



JUDGE FREMONT WOOD
Prominent orchardist, Boise, Idaho

list. First prize—\$250 cash and National Apple Show gold medal banner. Second prize—\$100 cash and National Apple Show silver medal banner.

NOTE—Winners of first and second awards in the Grand Prize contest will not receive cash prizes in the Elliott or Dumas contests, but will be given additional honors of winning in the special varieties.

CLASS TWO—LIMITED DISPLAY

No. 1. Contest open to individuals, districts, counties, states, provinces; the purpose being to encourage artistic arrangement and decorative effect. Each exhibit shall contain two boxes, two barrels, two baskets, two plates and two jars, but no box, barrel, basket, plate or jar may contain more than one variety. The exhibitor is allowed his own choice of varieties and may decorate the exhibit as he desires in a space 6x12 feet on an incline. This makes possible ten varieties which may be exhibited in this contest. The exhibitor may select one variety or the possible ten, but in no case can he have more than ten separate packages of apples. A box in this contest must contain not less than 40 pounds nor more than 62 pounds; a barrel must contain not less than 2½ bushels nor more than 3 bushels; a basket must contain not less than 25 pounds nor more than 32 pounds; a plate must contain five apples; a jar may be made of any material and any size not to exceed sixty gallons. Either preserved or natural fruit may be exhibit in the jars. Scoring points: On arrangement, 50; on decoration, 50. First prize—\$250 cash and gold medal banner. Second prize—\$100 cash and silver medal banner. Third prize—Solid silver cup.

CLASS THREE—DISTRICT FREE-FOR-ALL

No. 1. For general exhibits of apples grown on non-irrigated land. Any number of varieties may be entered; any size, any color or colors, any shape; may be packed in boxes, barrels, baskets or jars, or shown on plates; arranged in any style desired; decorated as wished. The only restriction will be a space limit for each exhibit of 10x20 feet. First prize—\$100 cash and gold medal banner. Second prize—\$50 cash and silver medal banner. Third prize—Solid silver cup.

No. 2. For general exhibits of apples grown on irrigated land. Conditions same as for No. 1. First prize—\$100 cash and gold medal banner. Second prize—\$50 cash and silver medal banner. Third prize—Solid silver cup.

CLASS FOUR—STATE GROUP DISPLAYS

No. 1. Eastern State Special—For best exhibit of two barrels, or six boxes, any single variety. Competition limited to entries from Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont. First prize—\$100. Second prize—\$50. Third prize—National Apple Show diploma.

No. 2. Middle West Special—For best exhibit of two barrels, or six boxes, any single variety. Competition limited to entries from Illinois, Iowa, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota and Wisconsin. First prize—\$100. Second prize—\$50. Third prize—National Apple Show diploma.

No. 3. Southern States Special—For best exhibit of two barrels, or six boxes, any single variety. Competition limited to entries from Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia. First prize—\$100. Second prize—\$50. Third prize—National Apple Show diploma.

No. 4. Western States Special—For best exhibit of two barrels, or six boxes, any single variety. Competition limited to entries from Idaho, Montana, Oregon, Nevada, New Mexico, Utah, California, Wyoming, Arizona, Colorado, Washington. First prize—\$100. Second prize—\$50. Third prize—National Apple Show diploma.

No. 5. Foreign Country Special—For the best exhibit of two barrels, or six boxes, any single variety. First prize—\$100. Second prize—\$50. Third prize—National Apple Show diploma.

No. 6. Denny & Company Special—For the best single state, territory or province display of two barrels, or six boxes, any variety. Entries in this class may also be entered in any other Class Five contest. First prize—\$100, donated by Denney & Company, New York. Second prize—Silver cup. Third prize—National Apple Show diploma.

CLASS FIVE—SINGLE BOX DISPLAYS

No. 1. California Nursery Special—For best box Yellow Bellflower. First prize—\$10 cash and 100 peach trees, 50 pear trees, 50 apricot trees, 50 plum trees, 100 grape vines and 100 currant vines. Stock donated by California Nursery Company, Niles, California. Second prize—\$5 cash and National Apple Show diploma.

No. 2. Meneray and Missoula Nurseries Special—For best box McIntosh Red. First prize—\$10 cash and 250 McIntosh Red trees. Trees donated by Missoula Nursery Company, Missoula, Montana. Second prize—\$5 cash and 100 Montmorency cherry trees. Trees donated by F. W. Meneray Crescent Nursery Company, Council Bluffs, Iowa.

No. 3. Prosser Nursery Special—For best four-tier box Winter Banana. First prize—\$10 cash and 50 Spitzenberg trees. Second prize—\$5 cash and National Apple Show diploma.

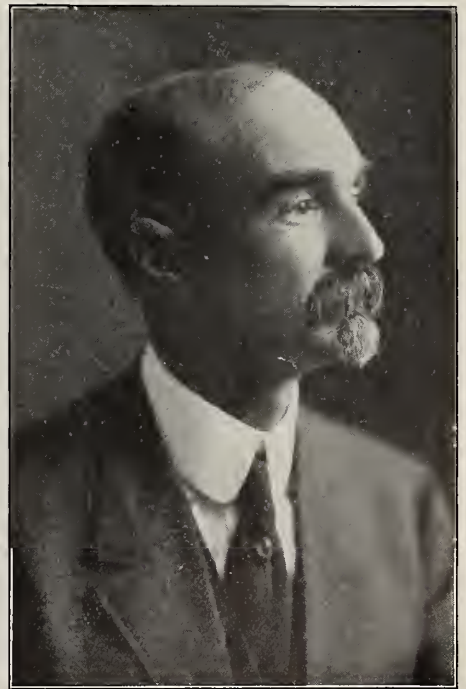
No. 4. For best four-tier box Spitzenberg. First prize—\$10 cash and 50 Spitzenberg trees. Second prize—\$5 cash and National Apple Show diploma.

No. 5. For best four-tier box Arkansas Black. First prize—\$10 cash and 50 Arkansas Black trees. Second prize—\$5 cash and National Apple Show diploma. Trees in this contest donated by Prosser Nursery Company, Prosser, Washington.

Davis Nurseries Prize—The Davis County Nurseries, Ray, Utah, offers as an additional prize on



I. G. MONROE
Secretary of Spokane Chamber of Commerce and of Washington State Horticultural Association



H. C. ATWELL
President of Oregon State Horticultural Society
Mr. Atwell is the second president, Dr. Cardwell having served from the date of organization in 1885 to 1907

best box Winter Banana, 25 Gano apple trees, 25 Jonathans, 25 Bartlett pear trees, 25 cherry trees.

No. 6. Richard Layritz Special—For best box of Cox Orange Pippin, packed for export. First prize—\$10 cash and 100 trees Cox Orange Pippin. Trees donated by Richard Layritz, Victoria, British Columbia. Second prize—\$5 cash and National Apple Show diploma.

No. 7. Chico Nursery Special—For best box Sierra Beauty, First prize—\$10 cash and 500 peach trees. Trees donated by Chico Nursery Company, Chico, California. Second prize—\$5 cash and National Apple Show diploma.

No. 8. Sunnyside Nursery Special—For best box Winesap. First prize—\$10 cash and 100 Winesap trees. Second prize—\$5 cash and National Apple Show diploma.

No. 9. For best box Spitzenberg. First prize—\$10 cash and 100 Spitzenberg trees. Second prize—\$5 cash and National Apple Show diploma.

No. 10. For best box Newtown Pippin. First prize—\$10 cash and 100 Newtown Pippin trees. Second prize—\$5 cash and National Apple Show diploma.

No. 11. For best box Jonathan. First prize—\$10 cash and 100 Jonathan trees. Second prize—\$5 cash and National Apple Show diploma.

No. 12. For best box Rome Beauty. First prize—\$10 cash and 100 Rome Beauty trees. Second prize—\$5 cash and National Apple Show diploma.

No. 13. Best box Wagener. First prize—\$10 cash and 100 Wagener trees. Second prize—\$5 cash and National Apple Show diploma. All trees in contests numbered 9, 10, 11, 12 and 13 donated by the Sunnyside Nursery Company, Sunnyside, Washington.

No. 14. Harrison Nursery Special—Best box Stayman Winesap. First prize—\$10 cash and 100 Stayman Winesap trees. Trees donated by Harrison Nursery Company, Merlin, Maryland. Second prize—\$5 cash and National Apple Show diploma.

No. 15. German Nurseries Special—Best box of Grimes Golden. First prize—\$10 cash and 200 Winesap trees and assortment vegetable seeds. Donated by German Nurseries and Seed House, Beatrice, Nebraska. Second prize—\$5 cash and National Apple Show diploma.

No. 16. Carlton Nursery Special—Best box of Golden Russet. First prize—\$10 cash and 50 Bartlett pear trees. Trees donated by Carlton Nursery Company, Carlton, Oregon. Second prize—\$5 cash and National Apple Show diploma.

No. 17. Fresno Nursery Special—For the best box of Black Twig. First prize—\$10 cash and 100

fruit trees or 500 grape vines. Stock donated by Fresno Nursery Company, Fresno, California. Second prize—\$5 cash and National Apple Show diploma.

No. 18. Pilkington Nursery Special—Best box of Northern Spy. First prize—\$10 cash and 200 cherry trees. Trees donated by J. B. Pilkington's Nursery, Portland, Oregon. Second prize—\$5 cash and National Apple Show diploma.

CLASS SIX—FIVE-BOX DISPLAYS

In all Class Six contests five boxes or two barrels will be allowed as an entry.

No. 1. Best five boxes Black Twig. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 2. Best five boxes Baldwin. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 3. Best five boxes Rhode Island Greening. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 4. Best five boxes Northern Spy. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 5. Best five boxes Stayman Winesap. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 6. Best five boxes Ben Davis. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 7. Best five boxes Grimes Golden. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 8. "Brother Jonathan" Trophy—For best five boxes or two barrels of Jonathans. First prize—\$25 cash and solid silver loving cup. Donated by the "Fruit Grower" of St. Joseph, Missouri. Second prize—\$15. Third prize—National Apple Show diploma.

No. 9. Best five boxes King of Tompkins County. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

No. 10. Best five boxes of any other standard commercial winter variety. First prize—\$50 cash. Second prize—\$15 cash. Third prize—National Apple Show diploma.

PACK PRIZES ADDED

Yakima Valley Nursery Special—For best five boxes in Class Six, packed 3½-tier, scored against other 3½-tier packs. Prize—500 trees, as follows: 100 Yellow Newtown, 100 Spitzenberg, 50 Deli-

cious, 50 Jonathan, 50 Winesap, 10 Winter Banana, 10 Wagener, 20 Royal Anne, 20 Bing, 20 Lambert, 10 Sudy Hardy, 20 Bartlett, 20 Comice, 10 Bosc, 10 Anjou. Donated by Yakima Valley Nursery Company, North Yakima, Washington.

Yakima Rex Spray Special—For best five boxes in Class Six, packed 4-tier, scored against other 4-tier packs. Prize—Five barrels Rex Spray. Donated by Yakima Rex Spray Company, North Yakima, Washington.

Charles H. Lilly Special—For best five boxes in Class Six, packed 4½-tier, scored against other 4½-tier packs. Prize—50 gallons Lilly Lime and Sulphur Solution. Donated by Chas. H. Lilly & Co., Seattle, Washington.

Washington Nursery Special—Best five boxes in Class Six, packed 5-tier, scored against other 5-tier packs. Prize—500 Winesap trees. Donated by Washington Nursery Company's Commercial Orchard, Toppenish, Washington.

CLASS SEVEN—TEN-BOX DISPLAYS

In all Class Seven contests ten boxes or six barrels will be considered an entry.

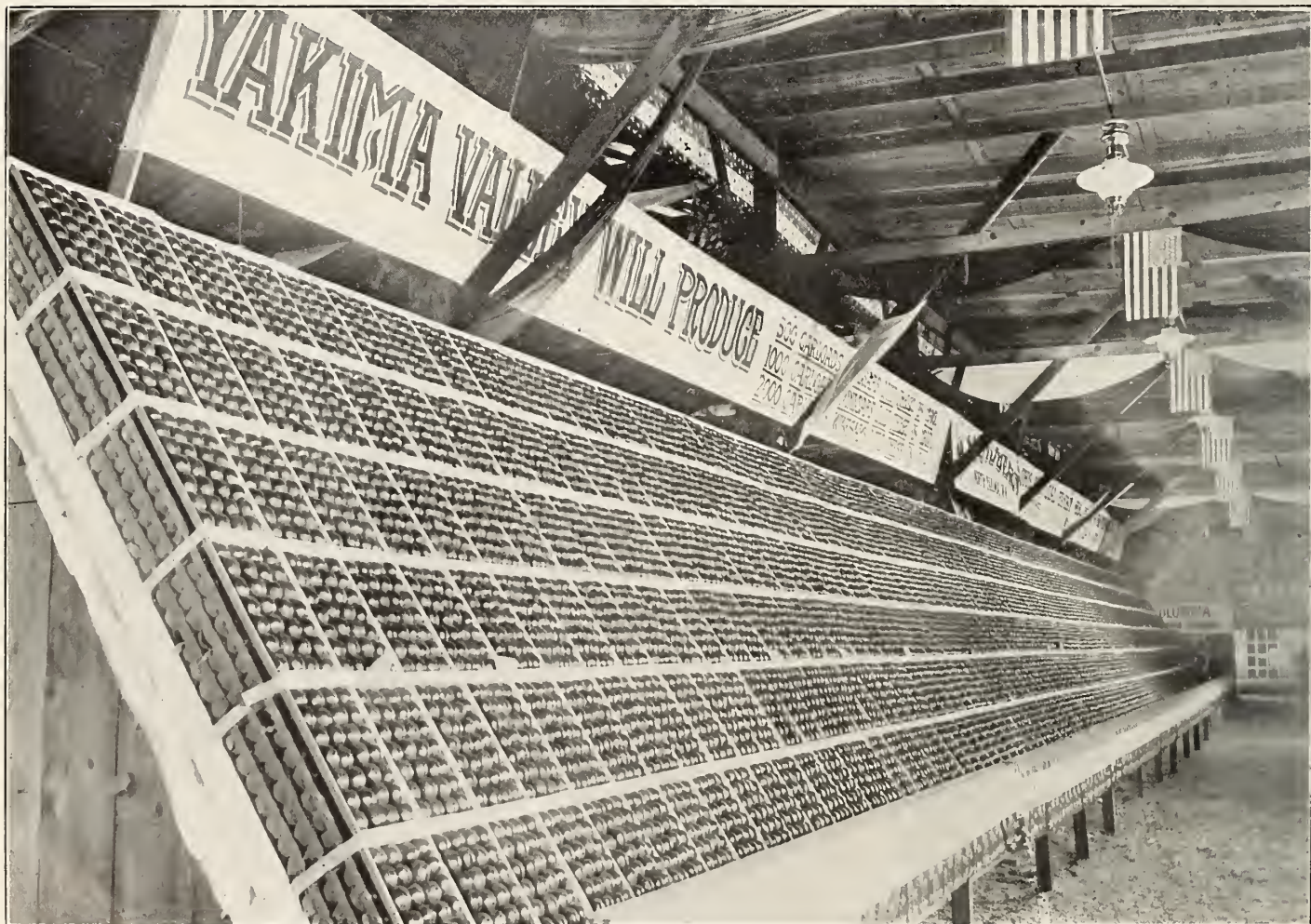
No. 1. Meadow Lake Special, Value \$1,250. For best ten boxes Rome Beauty. First prize—Five acres of choice orchard land in famous Meadow Lake district, seven miles from Spokane. Donated by Hanauer-Graves Company, Agents for Meadow Lake lands. Second prize—\$50 cash. Third prize—National Apple Show diploma.

No. 2. Oregon Valley Land Company Special, Value \$1,000—For best ten boxes Winter Banana. First prize—Five acres of land with water right to irrigate same; deed and water right delivered to winner without restriction; land located in Lakeview district, Oregon. Second prize—\$50 cash. Third prize—National Apple Show diploma.

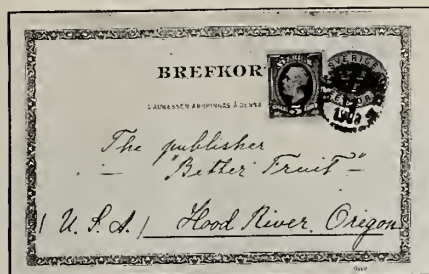
No. 3. Spokane Land Company Special—For the best ten boxes Spitzenberg. First prize—Five acres of land in Spokane Valley, with perpetual water right for same. Donated by Spokane Land Company. Second prize—\$50 cash. Third prize—National Apple Show diploma.

No. 4. Hanford Land Company Special—For best ten boxes McIntosh Red. First prize—Five acres in celebrated Hanford Tract on Columbia River. Second prize—\$50 cash. Third prize—National Apple Show diploma.

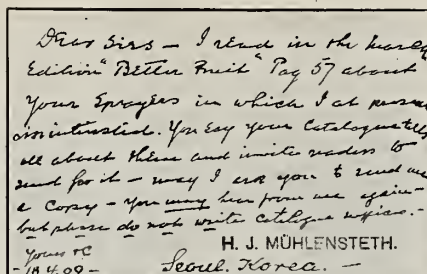
No. 5. Silver Grill Purse—For best ten boxes Winesap. First prize—\$150 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma. Prizes in this contest donated by W. S. Norman, proprietor Silver Grill, Spokane.



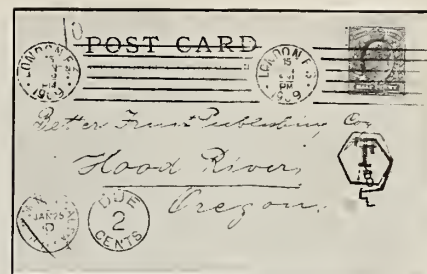
THE SPLENDID CAR OF WINESAPS EXHIBITED AT NATIONAL APPLE SHOW, SPOKANE, 1908, BY RICHEY & GILBERT COMPANY OF NORTH YAKIMA AND TOPPENISH, WASHINGTON. A SUGGESTIVE ILLUSTRATION OF HOW TO MAKE A CARLOAD EXHIBIT



AUG WICKMAN
Borlänge, Sweden



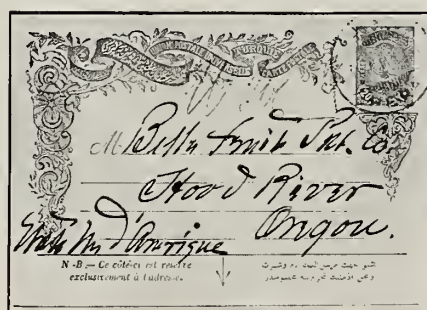
H. J. MUHLENSTETH
Seoul, Korea



LEOPOLD WARSCHAUER
London, England



GEORGE KING
Kylehill, Scotland



F. R. FABER
Constantinople, Turkey



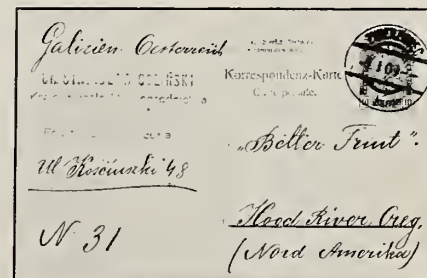
LADY STEWART
Ramelton, Ireland



GUISEPPE SADA
Milan, Italy



ADOLPHE LUDECKE
Turrepan, Mexico



DR. STANISLOW GOLINSKI
Krakow, West Galizien

No. 6. Silver Grill Purse—For best ten boxes Wagener. First prize—\$150 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma. Prizes in this contest also donated by the Silver Grill, Spokane.

No. 7. For best ten boxes Arkansas Black. First prize—\$100 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma.

No. 8. For best ten boxes Delicious. First prize—\$100 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma.

No. 9. For best ten boxes Yellow Newtown Pippin. First prize—\$100 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma.

No. 10. For best ten boxes of any other standard commercial winter variety. First prize—\$100 cash. Second prize—\$50 cash. Third prize—National Apple Show diploma.

Oregon-Medford-Hood Special—Added special prizes for all exhibitors in each Class Seven contest. The Oregon Spray and Gas Company of Portland, Oregon, the Hood River Spray Manufacturing Company of Hood River, Oregon, and the Medford Spray Company of Medford, Oregon, have combined in the following donation: To each and every exhibitor of ten boxes of Spitzenberg, Winesap, Arkansas Black, Rome Beauty, McIntosh Red, Wagener, Yellow Newtown, Winter Banana, Delicious, and one judges' choice, entered in any Class Seven contest, the companies mentioned will give a five-gallon can of Niagara Lime-Sulphur Spray.

"Better Fruit" Special—For best ten-box pack. E. H. Shepard, editor and publisher of "Better Fruit" at Hood River, Oregon, has been an enthusiastic supporter of the National Apple Show. Last year he gave a silver cup for the best pack in the five-box class. This year he offers a silver cup for the best packed display in any ten-box exhibit.

Williams' Twice Winner—For best ten boxes Rome Beauty. Winner of this prize two years in succession becomes owner of the silver cup donated by L. F. Williams of Steno Fruit Farm, Spokane. The cup was won by George Farwell, Wenatchee, in 1908. If he wins again in this contest this year he becomes owner of the cup.

Oregon Nursery Special—For best 4-tier pack in Class Seven. Prize—\$200 worth of nursery stock, winner's choice. Donated by Oregon Nursery Company, Salem, Oregon.

Milton Nursery Special—For best 4½-tier pack in Class Seven. Prize—500 one-year-old apple trees. Donated by Milton Nurseries, Milton, Oregon.

CLASS EIGHT—BIGGEST APPLES

No. 1. To show the possibilities of raising huge apples, which attract great attention on account of their size and are not to be scored for commercial value, the National Apple Show offers the following prizes: Collections of fifty apples arranged in pyramid shape on platforms. First prize—\$100 cash. Second prize—\$25 cash. Third prize—National Apple Show diploma. In this contest weight alone shall determine the awards.

No. 2. Biggest Single Apple. For a novelty prize to be awarded for the largest single apple, free from blemish, any variety, the following is offered: First prize—Metalized reproduction of the winning specimen, exact size, with winner's name engraved thereon. Work done by Delamothie Natural Art Decorating Company, Spokane. Second prize—Metalized reproduction, with winner's name engraved thereon. The Quaker Nurseries of Salem, Oregon, offer as an additional prize for the winner on first, 100 fruit trees of winner's selection.

CLASS NINE—IMPROVED PACKAGE

No. 1. For the most practical, economical improvement shown in boxes, barrels, baskets, the value for commercial purposes being first consideration. First prize—Engraved gold medal banner. Second prize—Diploma.

CLASS TEN—SWEEPSTAKES

No. 1. Tull & Gibbs Special—To the winner of most prizes of all kinds, first, second and third. Prize—Solid silver cup. Donated by Tull & Gibbs Furniture House, Spokane and Portland.

No. 2. Cherokee Nursery Special—To winner of the most first prizes on plate exhibits. Prize—Engraved watch fob and 100 trees. Donated by Cherokee Club Nurseries, Omak, Washington.

Stark Bros. Nurseries Special—Largest and best display of King David. Prize—1,000 one-year-old King David trees.

Largest and best display of Delicious. Prize—1,000 one-year-old Delicious trees.

Best display in one exhibit of Delicious, King David, Senator, Stayman Winesap, Rome Beauty, Jonathan and Black Ben. Prize—500 trees, winner's choice. All trees in these contests donated by Stark Bros. Nurseries and Orchards Company, Louisiana, Missouri.

CLASS ELEVEN—BEST KEEPERS

For best plate any variety, preserved longest without acids or other means, except cellars or cold storage. Prize—\$50. Donated by the Arcadia Orchards Company, Spokane.

CLASS THIRTEEN

No. 1. New Varieties Contest—For best new seedling apple produced during the last five years. First prize—National Apple Show silver cup. Second prize—Silver medal banner.

CLASS FOURTEEN

No. 1. Cushman Sprayer Special—For best three boxes or one barrel of most perfect apples, any variety, but exhibitor must own a Cushman sprayer. First prize—\$50 cash. Second prize—\$30 cash. Third prize—\$20 cash. Prizes in this contest donated by Cushman Power Sprayer Company, Lincoln, Nebraska.

CLASS EIGHTEEN HOME-MADE BY PRODUCTS

Appropriate prizes offered housewives for jellies, jams, etc.

No. 1. For the best jar of unflavored apple butter. Home made, not to exceed one gallon in quantity. Flavor and package to count. First prize—\$10 cash and one dozen Hybrid Perpetual Rose bushes. Donated by E. P. Gilbert Nursery, Spokane. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim, New Hampshire. Third prize—National Apple Show diploma.

No. 2. For best apple cider. Home made, each entry limited to one package not to exceed one gallon. Flavor and package to count. First prize—\$10 cash and \$50 worth of Burbank Crimson Winter Rhubarb. Donated by J. P. Wagner, Pasadena, California. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim,

New Hampshire. Third prize—National Apple Show diploma.

No. 3. For best unflavored apple jelly. Home made, each entry limited to one jar, not to exceed one quart in size. Flavor, clarity and consistency to count. First prize—\$10 cash and one dozen Premium glass jars. Donated by Premium Glass Company, Coffeyville, Kansas. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim, New Hampshire. Third prize—National Apple Show diploma.

No. 4. For best unflavored crab apple jelly. Home made, each entry limited to one jar or glass, not to exceed one quart in quantity. Flavor, clarity and consistency to count. First prize—\$10 cash and 25 apple trees. Donated by R. G. Chase Company, Geneva, New York. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim, New Hampshire. Third prize—National Apple Show diploma.

No. 5. For best unflavored preserved apples. Home made, each entry limited to one jar, not to exceed one gallon in quantity. Flavor and package to count. First prize—\$10 cash and "Friend" hand pump. Donated by "Friend" Manufacturing Company, Gasport, New York. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim, New Hampshire. Third prize—National Apple Show diploma.

No. 6. For the best pickled apples. Home made, each entry limited to one jar, not to exceed one gallon in quantity. Flavor and package to count. First prize—\$10 cash and Blackhawk grist mill, donated by A. H. Patch, Clarksville, Tennessee, and half dozen "Friend" angle nozzles, donated by "Friend" Manufacturing Company, Gasport, New York. Second prize—\$5 and apple parer. Donated by Goodell Company, Antrim, New Hampshire. Third prize—National Apple Show diploma.

No. 7. For the best unflavored apple marmalade. Home made, each entry limited to one jar, not to exceed one gallon in quantity. Flavor and package to count. First prize—\$10 cash and Little Gem pruner. Donated by Holloway Manufacturing Company, Ottumwa, Iowa. Second prize—\$5 and half dozen "Friend" angle nozzles. Donated by "Friend" Manufacturing Company, Gasport, New York. Third prize—National Apple Show diploma.

No. 8. For the best apple vinegar. Home made, each entry limited to one package, not to exceed one gallon in quantity. Flavor, clarity and consistency to count. First prize—\$10 cash and Blackhawk grist mill, donated by A. H. Patch, Clarksville, Tennessee, and Little Gem pruner, donated by Holloway Manufacturing Company, Ottumwa, Iowa. Second prize—\$5. Third prize—National Apple Show diploma.



VIEW OF PRINCE WALNUT GROVE, YAMHILL COUNTY, OREGON, SHOWING NATURE OF SITE

No. 9. For the best and most tasty general exhibit of apple products, home made, exclusive of all forms of alcoholic beverages. Number of varieties, package, flavor and arrangement to count. First prize—\$10 cash and Blackhawk grist mill. Donated by A. H. Patch, Clarksville, Tennessee. Second prize—\$5 and Little Gem pruner. Donated by Holloway Manufacturing Company, Ottumwa, Iowa. Third prize—National Apple Show diploma.

CLASS NINETEEN FACTORY-MADE PRODUCTS

Medals and diplomas for winning canned goods. No. 1. For the best single package of apple butter. Package not to exceed five gallons. Style of package and quality to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 2. For the best display of apple cider. Each package to contain not more than one gallon. Package, clarity and quality to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 3. For the best display of factory canned apples. Each entry limited to one can of each size. Color, flavor and style of package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 4. For the best display of apple jelly. Each entry limited to one package of each style. Color, quality and style of package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 5. For the best display of pickled apples. Each entry limited to one package, not to exceed one gallon. Color, quality and style of package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 6. For the best display of apple marmalade. Each entry limited to one package, not to exceed one gallon. Color, quality and style of package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 7. For the best display of apple vinegar. Each entry limited to one gallon. Color, flavor and style of package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 8. For best display of evaporated apples. Each entry limited to one package. Color and package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

No. 9. For the best display of dried apples. Each entry limited to one package. Color and package to count. First prize—Gold medal banner. Second prize—Silver medal banner.

CLASS SIXTEEN PRIZES FOR ORCHARD VIEWS

No. 1. For the best professional collection of orchard scenes, ten separate views. Prize—Five acres of land. Donated by Washington Irrigation Company, Seattle.

PLATE EXHIBITS

Five apples constitute a plate. Instead of placing a score value on varieties, the judges will consider each variety in a class by itself.

Five hundred cash prizes will be awarded on plate exhibits, and included with these awards are 4,000 trees donated by Stark Bros. Nurseries and Orchards Company, Louisiana, Missouri. The offers of this company are the most liberal ever given on plate exhibits anywhere and their total value is approximately \$1,000. In addition to these prizes the National Apple Show offers a first prize cash premium of \$3 on any and all standard varieties; also on any other variety which is considered worthy of exhibit.

Stark Bros. Special Plate Prizes—Best plate Black Ben, 250 one-year-old Black Ben trees; best plate King David, 250 one-year-old King David trees; best plate Senator, 250 one-year-old Senator trees; best plate Jonathan, 250 one-year-old Jonathan trees; best plate Stayman Winesap, 250 one-year-old Stayman Winesap trees; best plate Rome Beauty, 250 one-year-old Rome Beauty trees. Other prizes given by this company will be found under the head of "Delicious Special," "King David Special," etc., in another part of the premium list.

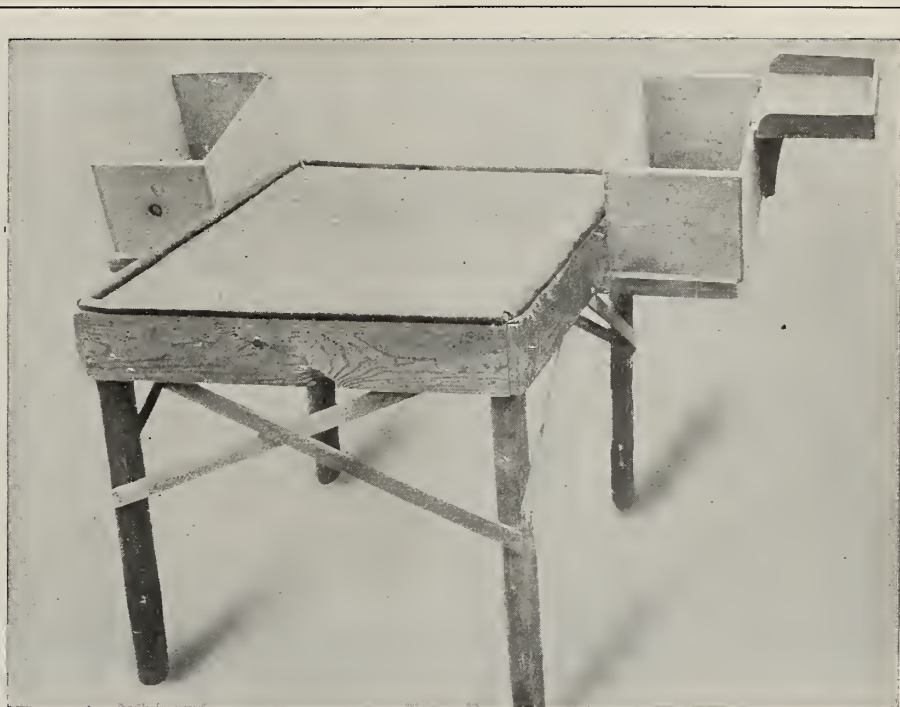
Following is a list of 250 varieties upon which the National Apple Show offers cash prizes of \$3 for first and \$1 for second, with the understanding that any other variety not mentioned may be



PICKING LADDERS IN USE IN PEAR ORCHARD OF D. GORE, MEDFORD, OREGON

entered and will be scored and awarded the same cash prizes:

Ailes, Alexander, Anis, Anisovka, Arkansas Black, Aunt Hannah, Babbitt, Baer, Bailey's Sweet, Baldwin, Baltimore, Basil the Great, Baxter, Belle et Bonne, Belmont (Waxen), Ben Davis, Bentley's Sweet, Bergamot, Bethlehemite, Bismarck, Black Ben Davis, Black Gillflower, Mammoth Black Twig, Blenheim, Blue Pearmain, Boardman, Boiken, Bright Water, Broadwill, Brooke's Pippin, Bryant, Buff, Bullett, Bullock's Pippin, Camak Sweet, Canada Baldwin, Canada Reinette, Cannon Pearmain, Carnahan Favorite, Caroline Queen, Carter, Carthouse, Champion, Chandler, Chenango, Clarke Pearmain, Cogswell, Cooper's Red, Cranberry Pippin, Crawford, Cross, Cullasaga, Cumberland Spice, Dansie Pepka, Danver's Winter Sweet, Delicious, Detroit, Domine, Duchess of Oldenburgh, Dutch Mignonne, Elkhorn, English Russet, Eustis, Evening Party, Fallawater, Fall Pippin, Fancuse, Flushing Spitzenberg, Fulton, Gano, Garden Royal, Golden Ball, Golden Pippin of Westchester County, Golden Russet, Good Peasant, Grandmother, Granite Beauty, Gravenstein, Green Pippin, Green Seek-No-Further, Green Sweet, Greenville, Grimes' Golden, Haas, Hall, Hartford Sweet, Herefordshire Pearmain, Herrin, Higby's Sweet, Hockett's Sweet, Hollow Crown, Honey Greening, Hubbards-ton, Hughes, Huntsman, Indiana Favorite, Ingram, Iowa Blush, Isham Sweet, Jacob's Sweet, Jefferis, Jersey Black, Jewett's Fine Red, Jonathan, Jones' Seedling, Kaiser, King of Tompkins County, Kin-nard, Lacker, Lady Apple, Ladies' Sweet, Large Anis, La Victoire, Lawver, Lead, Ledenets, Leicester Sweet, Limber Twig, London Sweet, London Pippin, Longfield, Long Stem of Pennsylvania, Louise, Lubsk Queen, Lukoff's Winter, Maiden Blush, Malinda, Mallett, Mann, Marshall Red, Marston's Red Winter, Maverick's Sweet, McIntosh Red, McLellan, McMahon, Michael Henry Pippin, Milam, Milwaukee, Minister, Minkler, Missouri Pippin, Monk's Favorite, Monmouth Pippin, Monstrous Pippin or Gloria Mundi, Moore's Sweet, Mother, Newark King, Newark Pippin, Newtown Pippin (Yellow), New York Vandevere, Nickajack, Nickel No. 1, Northern Spy, North-western Greening, Ontario, Ortle, Osceola, Palouse, Peck Pleasant, Perry, Pewaukee, Phillip's Sweet, Pilot, Pittsburg Pippin, Pomme Gris, Porter, Pound Royal, Pound Sweet or Pumpkin Sweet, Progress, Pryor's Red, Ragan, Rall's Genet or Janet, Rambour Queen, Ramsdell Sweet, Recumbent, Red Bietigheimer, Red Canada, Red Queen, Red Russet, Red Winter Pearmain, Rhode Island Greening, Robey's Seedling, Rome Beauty, Romna, Roman Stem, Rosenhager, Roxbury Russet, Royal Table, Russet Pearmain, Salome, Sandy Glass, Scott's Winter, Senator, Shiawassee, Shockley, Siloam, Skruishapfel, Smith's Cider, Smokehouse, Sops of Wine, Spitzenberg Esopus, Spokane Beauty, Stark, Stayman Winesap, St. Lawrence, Stone, Sutton Beauty, Swaar, Swayzie, Sweet Pearmain, Sweet Romanite, Sweet Vandevere, Talapehocken, Tewksbury Blush, Tolman's Sweet, Twenty Ounce Pippin, Virginia Greening, Wagner, Wallbridge, Wealthy, Wellford's Yellow, Well's Sweet, Western Spy, Westfield Seek-No-



PACKING TABLE ORIGINATED AT HOOD RIVER

Further, White Pippin, White Rambo, White Spanish Reinette, White Winter Pearmain, Williams' Favorite, Willow Twig, Windsor, Wine, Winesap, Wing Sweet, Winter Aport, Winter Banana, Winter Cheese, Winter Pippin of Geneva, Winter Rose, Winter Sweet Paradise, Wolf River, Wood's Greening, Yacob, Yates, Yellow Bellflower, Yellow Transparent, York Imperial, York Stripe.

RULES AND REGULATIONS GOVERNING ENTRIES AND EXHIBITORS

1. *Interpretation of Rules.* The National Apple Show reserves to its executive committee the final and absolute right to interpret these rules and regulations and arbitrarily settle and determine all matters, questions and differences in regard thereto, and also reserves the right to amend or add to these rules.

2. All exhibits for the National Apple Show may be consigned to the secretary, but transportation charges must be paid in advance, and in no case will such exhibits be brought into the buildings and placed on exhibition except by order of and at the expense and risk of the owner or his authorized agent. Exhibits sent should be plainly billed to "National Apple Show, Inc., Spokane, Washington."

3. *Admissions.* The gates will be open to visitors from 9 a. m. to 11 p. m. each day, and the admission will be: General admission (adults), 25 cents; general admission (children 5 to 12), 15 cents; exhibitor's ticket, unlimited admissions, \$1; season ticket (two admissions daily), \$1.50. No pass-out checks will be issued.

4. *Entries.* Competition is open to the world, unless otherwise provided in special classes.

Agricultural experiment stations may enter, but not in competition for prizes.

5. In the event of conflict of general and special rules, the latter will govern.

6. All applications for entries must be made on printed forms which may be obtained free by addressing the secretary or calling at his office, 216 Hutton building, Spokane, Washington.

7. No entrance fee will be charged, but each exhibitor entering for premiums will be required to purchase an exhibitor's ticket, costing \$1, at the time of making entry. These tickets are not transferable, but good for admissions to the grounds at all times during the show. Parties taking out an exhibitor's ticket may file application for entries in any or all classes and make additional entries until time arrives for closing of same.

8. A proper entry of all articles to be exhibited, for premiums or display, must be made with the secretary before being placed in the buildings. Tags showing class and division numbers for which entries are made will be furnished.

9. All entries must be filed, in person or by letter, with the secretary or his assistants. Date for closing of entries will be Saturday, November 13, 1909.

10. All exhibits must be in place by 9 o'clock on Monday, November 15, 1909, with entry cards attached, except as otherwise provided for.

11. Entries sent by express and bearing date on shipping bill not later than the closing date for same will be accepted, if received not later than twenty-four hours thereafter. Entries should be sent in early to insure their being received in time.

12. The management reserves the right to reject any entries offered; particularly such as require an unreasonable amount of space.

13. Exhibits which have been entered erroneously may, at the discretion of the secretary and judge of exhibits, be transferred to their proper divisions previous to the judging. If such classes have been judged they shall not be re-judged.

14. No officer or director of the association, superintendent or assistant superintendent, judge or employee of the show, will be permitted to enter the competition for premiums in any class.

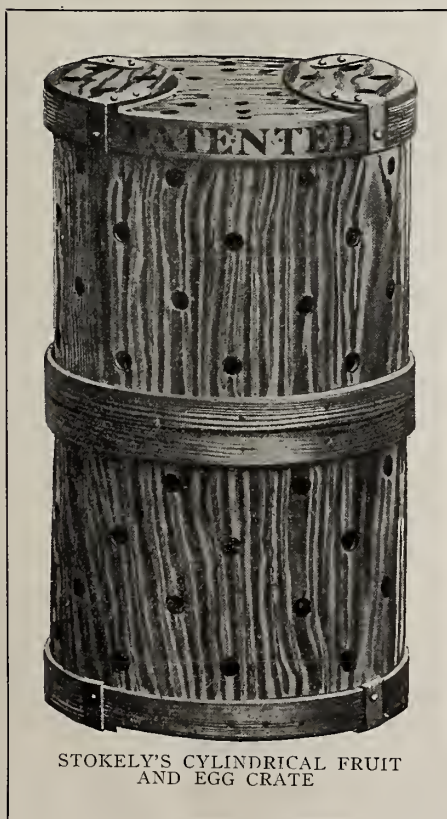
15. Exhibits may be shipped in care of the secretary (but in no case will such shipment be received or placed on exhibition unless charges are prepaid), who will see to the proper placing of the same if so directed in writing.

16. Exhibitors must see to the delivery of their exhibits to the superintendent of the proper department, and if so ordered, to the placing of them in position under his directions.

17. The management will in no case provide free transportation of exhibits, or be subject to any expense in their delivery to the buildings.

18. The management will use all diligence to insure the safety of exhibits after their arrival and arrangement, but in no case will be responsible for any loss or damage that may occur thereto.

Continued on page 37



STOKELY'S CYLINDRICAL FRUIT AND EGG CRATE



CYCLONE APPLE PACKER
Sold by Wells & Morris, Wenatchee, Washington

BETTER FRUIT

HOOD RIVER, OREGON

OFFICIAL ORGAN OF

THE NORTHWEST FRUIT GROWERS ASSOCIATION

A MONTHLY ILLUSTRATED MAGAZINE

PUBLISHED IN THE INTEREST OF UP-TO-DATE

FRUIT GROWING AND MARKETING

ALL COMMUNICATIONS SHOULD BE ADDRESSED AND
REMITTANCES MADE PAYABLE TO

BETTER FRUIT PUBLISHING COMPANY

E. H. SHEPARD

C. R. GREISEN

EDITOR AND PUBLISHER TRAVELING REPRESENTATIVE

SUBSCRIPTION PRICE \$1.00 PER YEAR
IN ADVANCE IN UNITED STATES AND CANADA

FOREIGN SUBSCRIPTIONS, Including Postage, \$1.50
ADVERTISING RATES ON APPLICATION

Entered as second-class matter December 27, 1906,
at the Post Office at Hood River, Oregon,
under Act of Congress of March 3, 1879

YAKIMA APPLE CROP.—The September edition of "Better Fruit" contained estimates of the coming year's apple crop and statistics on the carloads of apples shipped in refrigerator cars in the Northwest territory during the year 1908. After carefully looking over the manuscript it did not occur to us that any one could possibly misinterpret the statistics given for last year's shipments, and we regret that it was possible for any one to so misconstrue the statistics given as to make them appear unjust to any individual section or city.

On page 37, under the caption "Shipments of Fruit and Apples," one line was left out. The line left out should have read, "Cars shipped, other than Bohn refrigerator cars, from the following points." It seems to us impossible for any one to have read the whole article without giving each district proper credit. On page 37, column 2, "Estimates of Districts," the article distinctly states that 990 cars of apples were shipped out of the Yakima Valley district and that 2,290 cars of apples were shipped out of the State of Washington. With these statistics, the editor does not see how any one could infer from the paragraph appearing below that "Better Fruit" only gave the State of Washington credit for 187 cars. If any one will turn to page 37 and read this article he will see that Yakima is put down for 990 cars shipped last year and the State of Washington for 2,290. The number of cars shipped from Yakima was larger than from any other section and the shipment from the State of Washington was larger than

from any other state in the Northwest. Any one who will read the article thoroughly cannot help but see that at the top of the middle column of page 38 the Yakima Valley is given credit for 996 cars of apples and 606 cars of fruit shipped over the Northern Pacific Railroad; that North Yakima was given credit for 536 cars of apples and 376 cars of fruit, and Toppenish for 256 cars of apples and 127 cars of fruit over the Northern Pacific Railroad, and fourteen cars of fruit in refrigerator cars other than Bohn refrigerator. The 990 cars of apples credited to the Yakima Valley district on page 37, column 2, practically corresponds with Mr. Ober's estimate on page 38. This estimate was given out by Mr. Ober and published in the Yakima Herald and certainly is given credit for being correct.

We regret that any one could possibly draw an incorrect inference from the figures published and we firmly believe that any one who reads the whole article could not possibly misinterpret it, but as some one has apparently seen fit to do so we are glad to make this public explanation in the editorial columns of "Better Fruit." ♦ ♦ ♦

BETTER FRUIT is a matter of pride with the publisher and it has always been and will continue to be our aim to be fair and square with all of its patrons. "Better Fruit" is published for the benefit of the fruit grower. Its object is to improve and develop the fruit industry of every section by giving the best and most approved methods of doing everything connected with the growing and marketing of fruit. In addition we hope, as far as our limited means and modest ability will permit, to publish such exploiting matter as may be interesting and valuable, with a view to inducing Easterners to come to the Northwest and locate, and we might add that thirty-three per cent of our subscriptions are in the East. "Better Fruit" has never been mercenary in any way, and although it is a very expensive publication to maintain and in a large measure the publisher is dependent on patronage for support, we beg to say that we have given many sections and districts a great deal of space in our paper at different times, both in the way of articles and beautiful illustrations, which has cost us many times the amount actually received from the district in dollars and cents, so we

do not believe that any one could justly accuse "Better Fruit" of being mercenary or unfair, and if we have enemies we do not know it; but if we have they might do so. We know our friends won't, and our friends in the fruit industry and in the Northwest exist by the thousands.

♦ ♦ ♦

BETTER FRUIT never knowingly or purposely published anything that it knew to be incorrect or grossly exaggerated. We want to say to the public that any time "Better Fruit" publishes anything that is incorrect we stand ready promptly to correct it upon notification.

♦ ♦ ♦

BETTER FRUIT has been publishing an edition of sixty pages steadily for some time past, devoted to fruit growing and marketing, filled with high class, valuable information for the benefit of those engaged in the fruit business. We believe "Better Fruit" is doing far more for the fruit industry along this line than any other horticultural paper, and, we might add, more than several other papers combined, for the reason that we publish a high class, instructive paper of sixty pages per month, where other horticultural journals publish from twenty to thirty-two pages at the most, as a rule, and in many cases these pages are divided up in several departments, which are not devoted to horticulture, therefore reducing the actual number of pages devoted to horticulture to five or ten, where we publish sixty pages exclusively devoted to fruit growing.

♦ ♦ ♦

BETTER FRUIT is in no sense a local paper and we wish it distinctly understood that it is not published in the interests of any individual city, section or state. It is devoted to the fruit industry and published for the benefit of fruit

420 Acres Devoted to Nursery Purposes

THE WOODBURN NURSERIES

Established 1863, by J. H. Settlementier

Grower of Choice

Nursery Stock

F. W. SETTLEMIER

Woodburn, Oregon

Established 1878

Responsibility \$300,000

PALMER & CO.

Wholesale Fruits

SIoux CITY, IOWA

We are in the market for a number of cars of Western box apples, red winter varieties

Let us know what you have to offer

Correspondence Solicited

growers in the Northwest territory, Oregon, Washington, Idaho, Montana, Utah, Colorado and British Columbia.

◆ ◆ ◆

THE O. R. & N. and the Southern Pacific are doing some magnificent publishing work in the many handsome booklets they are getting out for the different districts. The cover of this edition, and several other of the scenes of the Willamette Valley, are specimens of the splendid work they are doing. They show their public spirit by extending to "Better Fruit" the privilege of using these illustrations.

◆ ◆ ◆

BE charitable, be liberal. If a man has done you a thousand good turns in public ways through a period of sev-

eral years, and provided the finances to do it, he certainly deserves appreciation. We don't believe it shows much appreciation and we don't believe it is liberal, fair or just for any man to pick out a paragraph or a part of any article which may appear in "Better Fruit" and then convey the impression that this was the contents of the whole article, for a part certainly does not represent the whole.

◆ ◆ ◆

I WILL SELL

Ten acres of my big irrigated peach and pear orchard of thrifty one-year-old trees. Located on high bench land on county road, 1½ miles from the city. Perpetual water right, woven wire fence; no buildings. \$1,000 cash, balance yearly. It can produce \$2,000 to \$3,000 next year. Address P. O. Box 103, Kennewick, Washington.

◆ ◆ ◆

HOOD RIVER BARGAIN

I own forty acres of fine young orchard situated on the irrigation ditch and valley railroad, and close to school, church and store. Deep soil and rolling land. This land was selected by an expert. Every tree was hand picked by my former partner, an expert orchardist, and each tree was planted and cared for by an expert. You should see the phenomenal growth they are making. All this has cost me several thousand dollars more than I can stand comfortably. Will sell two ways: Twenty acres, buyer's choice, \$11,000, on liberal terms. Or, an undivided half interest in the forty acres, including house and barn, good team horses, two

wagons, farm implements, tools, etc., for same price and terms. Nearby young orchard sold recently for \$1,600 per acre. Investigate this. Address owner, R. J. McDuffee, No. 1038 Belmont street, Portland, Oregon.

◆ ◆ ◆

WANTED TO RENT

A young man, married, thoroughly familiar with orcharding in all its branches, as carried on in the Northwest, wishes to rent for one year or more, with possible privilege of buying, a fruit ranch in bearing. Orchard must bear close investigation. Correspondence strictly confidential.—Address Rancher, "Better Fruit."

◆ ◆ ◆

FOR SALE, BY OWNER

A non-resident deems it advisable to sell a most attractive property located in best section of White Salmon Valley. Eighty acres of land, of which twenty acres are already under cultivation and earning about fifteen per cent on purchase price. Improvements, all new this spring, consist of six-room house with large living room, fireplace, bathroom complete, hot and cold water, gasoline engine, pump, 1,500-gallon water tank on thirty-foot tower, 600 feet of two-inch galvanized pipe, fire hose, etc. This property lies only one and one-half miles from Columbia River boats and from station of Underwood, on new Spokane, Portland & Seattle Railway. Note particularly the price, which is \$13,750, including two-seated wagon, farm wagon, spraying outfit and other necessary tools. This offer conditional only in event sale is made this fall. Address F. S. Forest, 201 North Twenty-second street, Portland, Oregon.

◆ ◆ ◆

THE "Find It" Pocket System, published by Arthur P. Simpson, 802 Pike street, Seattle, is just what the name implies. It is a small pocket edition blank book, with pages for each day in the month, a few pages for addresses, a few pages for "future attention," and a few pages for cash account. One of the strong features of the book is that the arrangement for the days and months enables a man to make an entry of something he wants to attend to on a certain date, which prevents him from forgetting any matter of business. The book will be of value to business men and fruit growers.

SAVE MONEY

By Being Systematic

Our Pocket System has an indexed page for every day in the year, with additional sheets for Addresses, Cash, etc., etc.

Send 15c for 70-page filler for October, or October and November for 25c.

Leather Cover with Pocket for 75c, or \$1.00 brings you, postpaid, entire outfit dated to December 31, 1909.

"FIND IT" POCKET SYSTEM
808 Pike Street, Seattle, Washington

WASHINGTON APPLES ARE SOLD IN YOUR TOWN



THERE'S MONEY IN COMMERCIAL
APPLE ORCHARDS
IN THE SPOKANE COUNTRY: WASHINGTON
This coupon will bring you full particulars
FILL OUT AND MAIL

HANAUER-GRAVES CO. SPOKANE, WASH.
MAIL ME YOUR BOOKLET ON MEADOW LAKE FARMS

Name.....
Address.....

AN INCOME BEARING SUBURBAN HOME AT
MEADOW LAKE WASH.

BARGAINS IN

WHITE SALMON APPLE LAND

305—20 acres, 1½ miles from town, 5 acres improved, remainder easily cleared; small house; fine spring of water. Price, \$7,000.

319—5 acres, 1½ miles out; 4 acres in trees and strawberries; good buildings. This is a snap. Price \$3,500.

301—40 acres, 6½ miles from town; 3 acres of Spitzenberg and Newtowns, two and three years old, 2 acres of spuds; 10 more easily cleared; good well—it is good water; good buildings on place. Price \$4,000; terms.

309—40 acres, 15 acres in orchard; good buildings; abundance of water. Price, \$6,000.

We have a special list of raw lands, ranging from \$25 to \$100 per acre, that are unsurpassed in their possibilities. They are among the best properties in the White Salmon Valley. Before investing be sure to see our list.

WHITE SALMON LAND CO.

White Salmon, Washington

A Partial LIST OF BARGAINS for Sale by **R. Field & Co., White Salmon, Washington** IN THE FAMOUS **White Salmon Valley**

An ideal fruit belt, mild climate and wonderful scenery, pure water and fuel in abundance, a productive and inexhaustible soil, assuring large and unfailing crops, and a ready market with the best transportation facilities.

You will have to act quickly if you want any of them, because land in this famous White Salmon valley is rapidly increasing in value. We have sold many tracts of land in the last three years, and those who bought from us are well pleased. We can refer you to them. We also have bargains in city property and are daily listing other outside tracts, which we shall be glad to show you. We guarantee every tract as good as represented.

Reference: White Salmon Valley Bank.

No. 250—160 acres $4\frac{1}{2}$ miles out; good fruit land; 2 acres cleared and in bearing orchard; some of the land is rough, some very fine; can be had at \$75 per acre, or will tract up in smaller tracts, some for \$75 per acre and some for \$100 per acre. Good terms given.

No. 251—160 acres at Laurel, a fine place at \$23 per acre; 5 acres cleared, 80 acres good timber, a spring and small stream on place, some fruit trees set out, 4-room house, good barn and other outbuildings; close to school and postoffice. A snap while it lasts.

No. 252—80 acres which can all be cultivated; good rich red shot soil; 9 acres cleared; watered by spring and creek which is being used on the land for irrigation; $3\frac{1}{2}$ acres set out to fruit trees; has a house and small barn. With this place go team of horses, cow, calf, 32 chickens, wagon, buggies, harness and other implements needed. Price \$6,000; \$3,500 cash, rest time.

No. 253—40 acres unimproved and the very best of apple land in the apple belt can be had for a short time for \$2,000, with terms to suit.

No. 254—160 acres at Trout Lake, a dairy farm; mostly all level land; has 18 acres cleared and is watered by spring and irrigation ditch; small house and barn. This place can be bought for \$2,200; \$1,500 cash, balance to suit.

No. 255—10 acres 4 miles out on the White Salmon river; a nice small home for some one and will do well for chickens and fruit. Price \$1,850; half cash, rest to suit. This is early fruit land and will bear investigation.

No. 256—40 acres unimproved land 13 miles from White Salmon, good rich soil, will be sold at a bargain for \$800 cash. Snap this up.

No. 257—80 acres close to Glenwood, unimproved but fine level land, easily cleared; is covered with yellow pine, but they are far apart. May come under irrigation ditch soon. Can be had for \$2,400; half cash, balance on terms to suit.

No. 258—40 acres 8 miles out, nice level apple land, rich soil, at \$50 per acre; terms given.

No. 259—10 acres in city limits, all in cultivation, $7\frac{1}{2}$ acres in bearing fruit trees, cherries, peaches, apples and prunes. Lies mostly level. A very good bargain at \$7,000; terms, \$4,000 cash, balance to suit purchaser.

No. 260—Fine town lots 60x190, with cherries and peach trees in bearing on them. Price \$300. Will make nice homes. Trees from now on will pay good interest on the money invested.

No. 261—80 acres 8 miles out in the apple belt, unimproved; covered with fir trees and willow and hazel brush; the very best of apple land. Price \$3,500.

No. 262—40 acres 14 miles out, unimproved; has some good fir timber on. This is 3 miles from Snowden. Price \$25 per acre; half cash.

No. 263—20 acres 3 miles from White Salmon; good rich red shot soil; land is all rolling, but not too steep for cultivation. There are 6 acres cleared and 275 fruit trees and 30,000 strawberry plants set out; has 4-room house and barn. Price \$5,000; \$3,000 cash.

No. 264—40 acres 6 miles out, in the center of the very best of apple land; 17 acres cleared, 11 set out to standard apples 1 year old; all the land can be easily put in. A bargain at \$5,500; half cash, rest two years' time.

No. 265—55 acres close to Husum, in the White Salmon valley; practically all level land; small clearing; right on main road; land is easily cleared. A snap at \$3,000; half cash, rest good terms.

No. 266—80 acres 6 miles out, about 40 acres cleared and most of it set out to standard fruit trees. This is a fine tract, lies well and has no waste land; will soon pay for itself when trees come in bearing. The price is \$200 per acre; the best improved land on our list. Terms given.

No. 267—160 acres close to Husum; nice fruit land, rolling; mostly under fence, 7 acres in cultivation; has nice oak timber on it and is watered by spring which can be used for irrigation; nice small orchard in bearing; good 9-room house and good barn. A fine place for a summer resort. Price \$100 an acre.

No. 268—60 acres close to town; nice level land, suitable to divide out in small tracts; will make nice homes. This is early strawberry land, cheap at \$175 per acre, with good terms.

No. 269—80 acres 14 miles out; small clearing; mostly level land, rich soil; easily cleared, being willow and hazel brush land. Price \$2,200; terms.

No. 270—30 acres 1 mile from town; 20 acres cleared, 17 acres set out to fruit; is watered by spring and stream. A fine tract of land and a money-maker. Price \$10,000; terms given.

No. 271—20-acre tracts unimproved land 3 miles from town; good apple land, covered with fir timber, hazel and willow brush. Price \$75 per acre; terms.

No. 272—80 acres 3 miles out; half level and the rest rolling; rich volcanic ash soil, with 4 acres in cultivation and 4 acres slashed; watered by a big spring. A snap for \$4,800; half cash.

No. 273—We have large bodies of timber and fruit land combined, suitable for saw mill proposition or for investment, which will rapidly rise in value in a few years. A splendid tract to be put on the market in small tracts or for colonization.

No. 274—160 acres good fruit land, close to Gilmer; 20 acres partly cleared; spring of water on place; on good county road, daily mail; has about 4,000,000 feet good fir timber. Price \$25 per acre; terms.

No. 275—6 acres adjoining city limits, all in cultivation; mostly set out in bearing fruit trees; will make a fine home. This place also has a nice view of Mount Hood and other places. Price \$4,000; terms.

No. 276—40 acres in White Salmon valley, nicely located, $1\frac{1}{2}$ miles from town; finest of apple and early strawberry land. Price \$4,000; terms.

No. 277—10 acres $\frac{1}{2}$ mile from town; 3 acres cleared and in commercial apples; good soil, with nice slope. Price \$3,500.

No. 278—80 acres 9 miles out; about 10 acres cleared, with some fruit trees set out; very rich soil, in the apple belt; will make good orchard; has house and barn. Price \$3,500.

We shall be glad to give you any further information you may desire. Being well acquainted with the possibilities and resources of the valley, we are positive we can be of service to you. We guarantee the best service to all of our customers and gladly make arrangements to show intending settlers the country, if they will let us know when they are coming. We respectfully solicit your patronage.

R. FIELD & CO., WHITE SALMON, WASHINGTON

SPOKANE NATIONAL APPLE SHOW PREMIUM LIST

Continued from page 33

19. *Exhibitors.* No exhibitors shall be allowed to make more than one entry in each number of any class.

20. Unless especially excepted, exhibitors must in all cases be the bona fide growers (or their agents by written permission) of exhibits entered by them.

21. No exhibit shall be allowed to compete for more than one premium nor shall be entered in more than one class, except as specially provided for and announced in the premium list.

22. No exhibit shall be removed before the close of the exhibition without the written permission of the superintendent in charge of the department in which the article is exhibited.

23. *Tools, Machinery, Spray, Etc.* Space for exhibition of tools, spray pumps, machinery or material, boxes, etc., or any article used in apple culture, marketing, packing, etc., will be provided up to the capacity of the building. Space allotted in order applications are received.

24. *Payment of Premiums.* All cash premiums will be paid Saturday, November 20, 1909. All other premiums will be delivered as soon as practicable, or a due bill issued for same.

25. Colors denoting awards will be as follows: Blue, first; red, second; white, third.

26. *Protests.* All protests must be made in writing, accompanied by an affidavit setting forth the grounds for protesting.

27. Protests against the exhibit must be filed with the secretary before 4 p. m. Monday, November 20, 1909. Protests against the awards will not be allowed, the judges' ruling in every case to be final.

SPECIAL RULES

Note carefully all general rules in fore part of list.

1. All packages must have a full address of exhibitor on package or box, also kind or kinds of fruit contained therein, as different varieties require different temperature in cold storage to obtain best results.

2. Entries must be made for exhibits by the person having charge of same (accompanied with a list of varieties of apples), who may receive the premium money, as "agent," for said exhibit. The National Apple Show will not be liable beyond the issuance of warrant for such premium.

3. A plate of fruit must contain five specimens of apples. A box must contain not less than forty pounds nor more than sixty-two pounds. A barrel must contain not less than two and one-half bushels and not more than three bushels. A basket

must contain not less than twenty-five pounds nor more than thirty-two pounds.

4. *Box Sizes.* In all box display contests regulation size boxes, adopted and endorsed by state or district horticultural societies from which the exhibit is sent, shall be used. No special size box will be admitted in the box display contests, except as specially provided for in the contests "Free for All" (No. 1, Class 3), and in the "Package Special" (No. 1, Class 9).

5. The duplication of varieties of fruits competing for individual premiums will not be permitted, except where so stated in the premium list.

6. Fruits offered for competition must have been grown by the individual offering them, or an "agent" accredited in writing, except in county, state, district, provincial or society entries.

7. All fruit when showing signs of decay sufficient to become unattractive may be removed, and exhibitors should be prepared to replace them with fresh specimens.

8. Entry cards, furnished by the management, specifying the class and division number of entry, must in all cases be placed with the exhibit to which it appertains.

9. *Duplicates Required.* All fruits competing for the same premium will be arranged together in groups. The same plates cannot compete for different prizes, though the several entries and the best plate may embrace the same varieties, but not the same plates of specimens; in each case there must be duplicates.

10. Seedling must be characterized by excellence, at least with those of established varieties of same grade and season, before being entitled to recognition.

11. Seedling having been presented, and failing recognition under the rules of the horticultural society of their state, shall not again be shown.

12. A list of varieties of apples must accompany county, state, district, provincial, individual and association entries.

13. *Advertising on Grounds.* The promiscuous distribution of hand-bills, etc., or tacking, posting or painting of advertising matter on the grounds or any of the property belonging thereto, is strictly prohibited, unless arranged for by contract with the privilege department. Exhibitors may advertise and distribute from their places of exhibit only.

14. *Concession.* Concessions will be let for supplying the necessary wants and providing for the comfort, convenience, pleasure and entertainment of visitors and exhibitors. All applications for space, etc., should be made to the Privilege Depart-

ment, National Apple Show, Spokane, Washington.

15. *Judges.* The "single judge system" is the policy of the management, and in every case the judge is selected with the utmost care, and as far as possible will be of national or international repute.

16. Judges must not award prizes to any unworthy exhibit. It is the intention of the management that no premium or distinction of any kind shall be given an exhibit that is not deserving.

17. No person who is an exhibitor can act as a judge.

18. Each judge is expected to exercise great care in observing and returning the entry cards, as upon the entry of awards under their signature, and upon no other authority, can warrants be drawn for premiums.

19. Any person attempting to influence the judges in their decision in any manner, or approaching a judge when he is judging, for any cause, unless asked for information, will forfeit all premiums awarded and will be excluded from competition and exhibition.

20. If there be any question as to the regularity of any entry, or the right of exhibit to compete in any class, the judges shall have full authority to settle the matter.

21. Judges will make their reports of awards to the superintendent in charge, in writing, properly signed, without delay, after making the awards.

Judges Rules. Each exhibit shall be judged on its own merits and shall not be credited with points on account of prizes won by same exhibitor in another class.

In awarding prizes on all commercial displays, unless otherwise specially provided for, the judges shall be governed by the rules and scoring points of the American Pomological Society. The regulations of the society are universally considered the broadest and fairest. They have been officially approved by the United States Department of Agriculture, and wherever used for scoring they have given more satisfaction than any other set of rules or scoring points.

Rule 2 of section 4 of the American Pomological Society regulations, entitled, "Examining and Awarding Committees," reads as follows:

"Rule 2. In instituting comparisons of values committees are instructed to consider: First, the values of the varieties for the purposes to which they may be adapted; second, the color, size and evenness of the specimens; third, their freedom from the marks of insects and other blemishes; fourth, the apparent carefulness in handling and taste displayed in the arrangement of the exhibit (pack)."

The foregoing shall be considered the official guide for the judges. As samples of the score

Gibson Fruit Company

Not Incorporated

131 SOUTH WATER STREET

CHICAGO, ILLINOIS

Great Central Market

We specialize in fancy Pacific Coast and Northwestern fruit. We are general distributing and Eastern marketing agents for some of the largest associations and shippers in the Northwest. We make a specialty of selling f. o. b. in transit or delivered, whichever way will realize best results for the shipper.

If you have not already arranged for the disposition of your shipments, make us your general Eastern sales agents. Will give your business special attention.

Mr. W. C. Michael, our Northwestern representative, is well known to a large number of the shippers of that section, and will be glad to call and see you during the season.

We own our own cold storage plant, the only one on South Water Street. It is an up-to-date one with a capacity for one hundred thousand boxes of apples. This, in connection with our store, places us in the best position of any one in the fruit business to protect the interests of the shippers.

We refer you to The First National Bank, Chicago, The Chicago Packer and the Produce Reporter Company

values placed by the American Pomological Society of quality, the following are given:

Scale	Quality
10.....	Best
8-9.....	Very good to best
7-8.....	Very good
5-6.....	Good to very good
3-4.....	Poor to good
2-3.....	Poor
1.....	Very poor

The following scoring values in accordance with the foregoing rules have also been officially promulgated by the American Pomological Society: Spitzenberg, 10; Yellow Newtown, 9-10; Grimes Golden, 9-10; Stayman Winesap, 8-9; Northern Spy, 8-9; Jonathan, 8-9; Tompkins King, 8-9; Rhode Island, 7-8; Winesap, 7-8; Wagener, 7-8; Rome Beauty, 6-7; McIntosh Red, 5-6.

SEND EXHIBITS PREPAID

Those who are unable to attend the National Apple Show in person may ship exhibits prepaid to Ren H. Rice, general manager, Spokane, Washington, and same will be cared for, displayed and entered for premiums as per written instructions accompanying exhibit or sent by mail.

DECISIONS OF JUDGES SHALL BE FINAL

At the suggestion of a number of exhibitors, prize winners and others who have made a study of judging apples at various fairs and the results therefrom, it has been decided to allow no protest on awards made by the judges this year. Men of national reputations, who have no interest whatever in the exhibits and who can be depended upon to be absolutely impartial and just, as nearly as men are so made, will be the judges of all exhibits and their decisions will be final. It is believed this plan will give greater satisfaction than any other method. It has been tried out at many successful fairs and it does away with the endless entanglement and hard feeling so often engendered where protests on a judge's decision are put up to an executive committee. The executive committee of the National Apple Show is not composed of men competent to judge apples, and after selecting as judges men whose opinions are reliable, it is best that these opinions should stand.

PARLIN & ORENDORFF PRIZE

An orchard cultivator or disc harrow manufactured by the Parlin & Orendorff Northwest Plow Company will be awarded at the National Apple Show as a special prize for the best export pack, conditions concerning which will be announced in the next issue of "Better Fruit." The prize will probably be designated as the "Parlin & Orendorff Export Special."

APPLE PRICES

? THE QUESTION SOLVED

Apple shippers are puzzling over the value of this season's crop. Many of them have sold in past seasons to speculators, the price being set by a system of bluffing on one side and standing pat on the other, the law of supply and demand being altogether a secondary consideration. The grower is not usually in possession of all the facts concerning the apple crops of the United States and foreign countries. Hence the speculator has the advantage and usually makes the profit.

A sales system is available for the Northwestern growers which absolutely insures their receiving the highest reasonable value for their crops. This system operates on the basis of knowledge of the size and condition of the apple crop of the world, an accurate knowledge of the demand in every consuming district, an intimate personal knowledge and connection with the best carlot buyers and jobbing trade everywhere. This system is operated by Crutchfield & Woolfolk, the well known sales agents.

Among other crops sold last season by Crutchfield & Woolfolk, was the crop of the Cashmere Fruit Growers' Union, Cashmere, Washington. They handled a large business from this Union. They sold f. o. b. shipping point and in transit every car, and the season's averages,

f. o. b. shipping point on various varieties were as follows:

Spitzenbergs ... 4 tier \$1.97; 4½ to 5 tier \$1.81
Winesaps 4 tier \$1.95; 4½ and 5 tier \$1.90
Ganos 4 tier \$1.24; 4½ and 5 tier \$1.19
Mo. Pippins... 4 tier \$1.46; 4½ and 5 tier \$1.38

Crutchfield & Woolfolk are devoting their special attention to Northwestern apples. They have long been connected with the apple industry of this country, and are recognized here and abroad as one of the leading factors in the deal. They have built up a scientific selling organization which covers the entire consuming demand of this country and abroad, so that any grower or association placing fruit in their hands to sell, avoids the speculative jugglery incident to the average grower's sale at shipping point, and the crop sold by Crutchfield & Woolfolk is disposed of to the fancy fruit buyers that can pay the highest limit in price.

Crutchfield & Woolfolk sell f. o. b. shipping point and in transit. Every car sold for the above union last season was at an f. o. b. price.

This selling organization has an intimate knowledge of the apple crops of the world, of trade conditions, the demand and proper values. They have district and branch offices all over the country and their general offices are located in Pittsburg, Pa.

Every grower in the Northwest who is interested in better prices and the establishing of a permanent trade reputation for his brand, should write to Crutchfield & Woolfolk, Pittsburg, Pa., at once, for information and their booklet on f. o. b. selling and distribution.

ROBERT T. COCHRAN & CO.

COMMISSION MERCHANTS

290 WASHINGTON STREET

NEW YORK

Want Apples

CORRESPONDENCE SOLICITED

Members International Apple Growers Association

References: D. V. Burrell, Rocky Ford, Colorado; Ozark Improvement Co., Brandsville, Missouri; Oakland Fruit Co., Van Buren, Arkansas; Georgia Fruit Exchange, Atlanta, Georgia; Aetna National Bank of New York; Commercial Agencies

Rae & Hatfield

Largest Handlers of Pacific Coast Fruits in the East

REPRESENTING THE FOREMOST WESTERN SHIPPING COMPANIES AND ASSOCIATIONS
ON THE NEW YORK MARKET

Operating in All Producing Sections

Reliable

Experienced

Prompt

317 WASHINGTON STREET

NEW YORK

Steinhardt & Kelly

101 Park Place, New York

*The largest and most extensive fruit concern in the world
operating in all the fruit growing sections of the civilized globe*

Exclusive Purveyors of High Class Fruits

STEINHARDT & KELLY HANDLE MORE

BOX APPLES

THAN ANY OTHER CONCERN IN THE COUNTRY
and was the first fruit house to extensively introduce the Northwestern product to the consumers of the East. With able representation in all the leading markets STEINHARDT & KELLY are enabled to handle the entire crops of the most extensive districts with utmost ease and celerity

CORRESPONDENCE WITH ASSOCIATIONS, UNIONS AND
INDIVIDUAL GROWERS WILL BE GIVEN PERSONAL ATTENTION

BOOKS THAT ARE OF INTEREST TO GROWERS

BOOKS we have read, own and recommend which can be ordered of your local stationer, or direct. The initials after the name represent the publishers, whose address can be found at the end of the list. These books can be ordered of the J. K. Gill Company, Portland, Oregon.

Fruits and Fruit Trees of America— <i>Dawson</i>W	\$4.50
California Fruits— <i>Wicksan</i>P	2.50
Success with Small Fruits— <i>Rae</i>DM	.75
American Fruit Culturist— <i>Thomas</i>WV	2.50
Strawberry Culturist— <i>Fuller</i>J	.50
The Principles of Fruit Growing— <i>Bailey</i> ..M	1.25
Bush Fruits— <i>Card</i>M	1.50
Horticulturists' Rule Book— <i>Bailey</i>M	.75
The Nursery Book— <i>Bailey</i>M	1.00
Pruning Book— <i>Bailey</i>M	1.50
Cyclopedia of Horticulture— <i>Bailey</i>D	30.00
Nut Culturist— <i>Fuller</i>J	.75
Insects Injurious to Fruits— <i>Saunders</i>L	2.00
Fungi and Fungicides— <i>Weed</i>J	1.00
Insects and Insecticides— <i>Weed</i>J	1.50
Spraying Crops— <i>Weed</i>J	.50
Spraying of Plants— <i>Lademan</i>M	1.00
Talks on Manure— <i>Harris</i>J	1.50
Farming with Green Manures— <i>Harlan</i> ...F	1.00
Fertilizers— <i>Vaarhees</i>M	1.00
Irrigation Farming— <i>Wilcox</i>J	2.00
Irrigation for Farm, Garden and Orchard— <i>Stewart</i>J	1.50
Irrigation and Drainage— <i>King</i>M	1.50
Gardening for Profit— <i>Hendersan</i>J	1.50
New Onion Culture— <i>Greiner</i>J	.50
New Rhubarb Culture— <i>Marse</i>J	.50
Asparagus— <i>Hexamer</i>J	.50
Vegetable Gardening— <i>Green</i>WP	1.25
A B C of Potato Culture— <i>Terry</i>R	.45
Tomato Culture— <i>Raat</i>R	.35
Melons— <i>Burpee</i>B	.20
The Vegetable Garden— <i>Velmorin</i>D	4.50
The Forcing Book— <i>Bailey</i>M	1.00
Garden Making— <i>Bailey</i>M	1.00
Practical Garden Book— <i>Nunn & Bailey</i> ..M	1.00
Hedges and Windbreaks— <i>Powell</i>J	.50
The Soil— <i>King</i>M	.75
Fertility of the Land— <i>Roberts</i>M	1.25
The Farmstead— <i>Roberts</i>M	1.25
Rural Wealth and Welfare— <i>Fairchild</i> ...M	1.25
Farm Poultry— <i>Watson</i>M	1.25
How the Farm Pays— <i>Crasier & H.</i>H	2.00

The First Book of Farming— <i>Gadrich</i> ...D	1.00
Cyclopedia of Agriculture.....J	4.50
The Principles of Agriculture— <i>Bailey</i> ...M	1.25
Roses and How to Grow Them— <i>Sibsan & Halman</i>G	.50

ABBREVIATIONS

Pacific Press Pub. Co., San Francisco, Cal.....P	
Orange Judd Co., New York.....J	
Webb Publishing Co., St. Paul, Minn.....WP	
A. C. Root Co., Medina, Ohio.....R	
W. Atlee Burpee, Philadelphia.....B	
J. H. Gregory, Marblehead, Mass.....G	
Doubleday, Page & Co., New York.....D	
A. T. Ferris, Shea.....F	
John Wiley & Sons, New York.....W	
W. W. Wood & Co., New York.....WV	
J. B. Lippincott & Co., Philadelphia.....L	
J. K. Gill & Co., Portland.....G	
MacMillan Co., New York.....M	
P. Henderson & Co., New York.....H	



APPLE SHOWS THIS YEAR

The National Apple Show, at Spokane, Washington, November 15 to 20.
The National Horticultural Congress, Council Bluffs, Iowa, November 15 to 20.
The National Apple Exposition, Denver, Colorado, January 3 to 9, 1910.
Northwest Fruitgrowers Association Meeting will be postponed until next year on account of so many expositions.

United States Land and Irrigation Exposition, Chicago, Illinois, November 20 to December 4.
Western Montana Apple Show, Missoula, Montana, October 18 to 22.
Alaska-Yukon-Pacific Exposition is running from June 1 to October 15, at Seattle, Washington.
The Dry Farming Congress will hold its fourth annual session at Billings, Montana, October 26, 27 and 28, 1909.

Stanley-Smith Lumber Co.

WHOLESALE AND RETAIL

LUMBER

Lath, Shingles, Wood, Etc.

Hood River, Oregon

R. E. HARBISON

We make them of
every description

BOXES

A. L. NEWTON

Made of odorless
White Fir

The kind that helped to make Hood River famous. Used by the best trade. Write for prices

We make Hood River Apple Box Press, the best on the market

HOOD RIVER BOX CO.

Formerly owned by the Davidson Fruit Co.

HOOD RIVER, OREGON

FRUIT BOXES

WE ARE EXTENSIVE
MANUFACTURERS OF

Five Pound Tin Top Baskets

Common Quart Hallocks

Plant Bands

Shipping Crates

Apple, Pear, Peach and Picking
BOXES

OREGON AGENTS FOR THE

Hoquiam Patent Folding
Berry Hallocks

We Solicit Your Inquiries

Multnomah Lumber & Box Co.

Foot Bancroft Avenue

PORTLAND, OREGON

PINE BOXES

BRIGHT, LIGHT FRUIT BOXES FROM
THE FAMOUS KLICKITAT PINE

Our new plant can fill your orders promptly
and satisfactorily and save you money.
Send your specifications and ask for prices

Klickitat Pine Lumber Co.

Portland Office:
26 Concord Building

GOLDENDALE, WASH.

The Hood River Electric Light, Power & Water Co.

DOING A GENERAL ELECTRIC
LIGHT AND POWER BUSINESS

TWENTY-FOUR HOUR SERVICE

City Water Works System for Domestic and Municipal
Use. Are prepared to furnish 3,000 horsepower, either
Electric or Water, at Reasonable Rates

General Office, HOOD RIVER, OREGON

THE DESTRUCTIVE NATURE OF CROWN GALL

COLORADO fruit growers have long known of the destructive nature of crown gall to all kinds of fruit trees. There seems to be some conditions here which make the disease much more destructive than in the humid states. In fact, it has caused so little damage in the East that nurserymen come to regard it as harmless. This probably accounts

for the attitude of Eastern nurserymen toward our inspection laws. Not a spring passes but what some of our inspectors are threatened with damage suits by some nurseryman who has had his stock condemned. Some nurserymen claim not to have heard of the disease before.

About four years ago the United States Department of Agriculture published the results of some experiments with crown gall which apparently proved that it is not harmful to apple trees. While this may be true under the conditions at St. Louis, where the experiments were conducted, every Colorado fruit grower of a few years' experience knows that here the reverse is true. Experience has shown our fruit growers that a great many trees die each year from this cause. And it has been noticed in a great many instances that if a badly infected tree is planted, it rarely makes much of a growth and it usually dies before it is ten years old.

The cause of the disease has been obscure, though Toomey of Arizona tried to prove that a certain fungus was responsible. No one has ever been able to duplicate his results, consequently it has never been fully accepted. Doctors Smith and Townsend of the Department of Agriculture have recently found that a gall on the Paris daisy is due to the attacks of a bacterium. They have also found that when peach trees are inoculated with a pure culture of these germs

galls are produced which closely resemble the common crown gall.

In the meantime the inspection of nursery stock should continue to be as rigid as in the past, and it is likely that the interests of all will be best served if all diseased trees are destroyed as soon as discovered.—W. Paddock, Colorado Agricultural College, Fort Collins.

◆ ◆ ◆

THE Denver Auditorium is to be the scene of one of the greatest expositions of the coming season. The Colorado National Apple Exposition will be the grandest demonstration of the apple growing industry that has ever been promoted. Thousands of dollars in prizes will attract hundreds of exhibits in the various classes, and it is doubtful if the Auditorium will hold the stuff that is offered for display. The apple industry is growing rapidly and will this year mean millions of dollars to Colorado. No better dates could have been secured than the week from January 3 to 9, 1910.

◆ ◆ ◆

NURSERYMAN AND ORCHARDIST

Seven years on the Coast; can graft, prune, bud, propagate and manage orchard work. Would like to hear of opening. Address Taylor, care "Better Fruit."

◆ ◆ ◆

WANTED

Experienced apple packers; wages \$3.50 per day, or six to eight cents per box. Flathead Fruit Growers' Association, Kalispell, Montana.

J. M. Schmeltzer, Secretary
Hood River Abstract Company
Hood River, Oregon
ABSTRACTS INSURANCE
CONVEYANCING

Chas. G. Pratt, President
J. H. Osborne, Vice-Pres.
R. W. Pratt, Cashier

M. M. Hill
Wilson Fike
C. H. Stranahan

Hood River Banking & Trust Company

Hood River, Oregon

We own and occupy the finest equipped and most modern bank in Hood River County. A general banking and trust business transacted. Safe deposit boxes. Interest paid on time and savings deposits. Make our bank your headquarters when in Hood River. Correspondence and your patronage solicited

CAPITAL STOCK, \$100,000 SURPLUS, \$20,000

FIRST NATIONAL BANK

HOOD RIVER, OREGON

F. S. STANLEY, President
E. L. SMITH, Vice-President
E. O. BLANCHARD, Cashier
V. C. BROCK, Assistant Cashier

Assets over \$325,000

Savings Bank in connection

LADD & TILTON BANK

ESTABLISHED 1859. Oldest Bank on the Pacific Coast

PORTLAND, OREGON

Capital Fully Paid \$1,000,000
Surplus and Undivided Profits \$500,000

Officers:
W. M. Ladd, President
Edward Cookingham, Vice-President
W. H. Dunckley, Cashier
R. S. Howard, Jr., Assistant Cashier
J. W. Ladd, Assistant Cashier
Walter M. Cook, Assistant Cashier

INTEREST PAID ON TIME DEPOSITS AND SAVINGS ACCOUNTS

Accounts of banks, firms, corporations and individuals solicited. Travelers' checks for sale, and drafts issued available in all countries of Europe.

LESLIE BUTLER, President
F. McKERCHER, Vice President
TRUMAN BUTLER, Cashier

Established 1900
Incorporated 1905

Butler Banking Company

HOOD RIVER, OREGON

Capital Fully Paid, \$50,000 Surplus and Profits are \$30,000

INTEREST PAID ON TIME DEPOSITS

We give special attention to GOOD FARM LOANS

If you have money to loan we will find you good real estate security, or if you want to borrow we can place your application in good hands, and we make no charge for this service.

THE OLDEST BANK IN HOOD RIVER VALLEY

A Delightful Allegory on the Uses of Farm Machines

ONE of the most unique and interesting booklets on farm machines ever gotten out has just been issued by the International Harvester Company of America.

It is a beautiful little allegory in verse on the value and uses of modern farm implements, and is not less interesting for the story itself than its many fine pictures which are printed in colors.

The book is entitled, "Glimpses of Thrift-Land," and from the start is on the border line between the ideal and the real, notwithstanding the fact that it is dealing with so staid and substantial a subject as farm machines and implements.

As the story goes, Farmer Brown is engaged in making hay, when suddenly there appears a mysterious character of military bearing, made up of corn,

wheat, oats, alfalfa, etc., who announces that he is the Genius of Farm Thrift, or "Prosperity," called "Prosperity" for short. He tells Farmer Brown that his home is in the earth, but that he is charged with the high mission of pointing the way to better conditions in farm life, and asks the farmer to accompany him.

Wouldst have a glimpse
Of Thrift-Land fair—
The smiling land
With promise rare?
Take my right hand,
Your eyes shall see
Less toil and true
Prosperity.

The farmer consents, and they go together to the realm of "Thrift-Land," where they meet another farmer who has made a fortune on his farm of ideal surroundings, and who imparts to them the secrets of his great success. This takes them step by step over the whole range of modern farm machines and their necessity in getting best results from the farms. The farmer in Thrift-Land is an ideal farmer on an ideal farm, and, of course, saves time and expense and preserves himself to enjoy in his old age his rapidly growing wealth by using the peerless I. H. C. farm machines and implements.

It is a fascinating little story, beautifully illustrated, and breathes the spirit of farm progress all the way through. We know our readers will be interested, both in the story and the moral it points.

A copy may be had by writing for it to the International Harvester Company of America, Chicago, U. S. A.

The company has also designed and has ready for distribution a beautiful monogram tie pin in gold, silver and bronze finish, suitable for the coat, scarf, etc. Or you can have a lapel button in gold finish only. One of these presents will be mailed to any reader of this paper who writes for it and who names one or more persons who are likely to be buyers of a cream separator, manure spreader, gasoline engine, wagon, feed grinder, hay press, auto buggy or disk harrow. You can write for the pin or lapel button when you write for "Glimpses of Thrift-Land." Both are sent post-paid. Don't forget to mention a possible buyer of a farm machine or implement if you want to receive the pin or lapel button. Address "Prosperity," care International Harvester Company of America, Room 56, Harvester Building, Chicago, Illinois.

◆ ◆ ◆

Almost the whole world knows of Hood River as a place that produces the best fruits, and all of Hood River Valley should know, and could know, that there is one place in Hood River, under the firm name of R. B. Bragg & Co., where the people can depend on getting most reliable dry goods, clothing, shoes and groceries at the most reasonable prices that are possible; try it.

The Hall Drug Store

Eastman Kodaks and Supplies
Souvenirs, Postcards, Stationery,
Pyrography Materials

Hood River's Largest and Best
Drug Store

LET US SEND YOU
SAMPLES
OR
FURNISH ESTIMATES
FOR
ATTRACTIVE
FRUIT CASE
LABELS

WRITE
Schmidt
LITHOGRAPH CO.
408 WELLS FARGO BLDG.
PORTLAND, ORE.

A POSTAL CARD WILL BRING
OUR SAMPLE BOOK OF
STOCK FRUIT CASE LABELS

OPINIONS OF BETTER FRUIT SUBSCRIBERS

Salem, Oregon, April 20, 1909.
Better Fruit Publishing Company:

Gentlemen—Salem is now booming for better fruit, and in fact the whole valley, so I hope the Willamette Valley will soon come up with Hood River, both in quality and prices.

Yours truly,
Nils N. Lunde.

Seattle, Washington, March 23, 1909.
Mr. E. H. Shepard:

Dear Sir—I go hold of some copies of your "Better Fruit" the other day and want to subscribe for same. From what I hear this publication of yours is the leader in its line and you are to be congratulated.

Your truly,
E. R. Adams.

Chicago, Illinois, April 15, 1909.
Mr. E. H. Shepard:

Dear Sir—I want to thank you for the not only beautiful, but most instructive April number sent me. I think no farmer should miss this number, and I think it is the best amount of sound knowledge ever spread with ink on paper.

Yours truly,
Phil Isbell.

Louisiana, Missouri, March 16, 1909.
Mr. E. H. Shepard, Editor "Better Fruit":

Dear Sirs—Your March issue certainly is a mighty good one. You seem to have the right kind of stuff that will appeal to the subscription list, and it seems very seasonable. It is very gratifying to see the mechanical end of your paper improving with nearly every number and we hope that this improvement may continue from time to time until you have established a standard to which all other horticultural publications must reach.

Yours truly,
Stark Bros. Nurseries and Orchards Co.

North Yakima, Washington, January 9, 1909.
Mr. E. H. Shepard:

My Dear Mr. Shepard—"Better Fruit" is a dandy paper. I think it superior to "Suburban Life" and "Country Life in America" for the fruit growers of the Northwest. Each issue seems to be an improvement on the preceding.

Very truly yours,
Alfred H. Henry.

Lincoln, Nebraska, May 13, 1909.
Better Fruit Publishing Company:

Gentlemen—Incidentally I might say that I consider "Better Fruit" the very best journal published today in the English language in the interest of scientific fruit culture. In the practical character and scientific tone of its articles and the beauty of its illustrations and perfection of its print I consider it without a peer. I do not see

how any one who takes any interest at all in good fruit can do without "Better Fruit."

Yours very truly,
S. E. Cook, M. D.

Grand Junction, Colorado, March 3, 1909.
Mr. E. H. Shepard:

Dear Sir—I am glad to see you getting into Colorado with your paper, for I think it is the best fruit paper now available for the Colorado fruit growers.

Very truly yours,
O. B. Whipple.



SLOCOM'S BOOK STORE

Office Supplies
Stationery

Ledgers, Journals, Time Books
Memorandum Books
Rubber Stamps
Souvenir Postals Picture Frames

OLDEST LIVERY COMPANY
IN THE VALLEY

TRANSFER & LIVERY CO.

Special attention to commercial
men, camping & fishing parties

TELEPHONE MAIN 131

HOOD RIVER, OREGON

A Trip to the Coast

Is incomplete without a ride
on the

Mt. Hood Railroad

By Mountain Streams, Virgin For-
ests, Apple Orchards and Snow
Capped Peaks

Connects with O. R. & N.
at Hood River, Oregon

Salem Tile Factory



GOLD MEDAL

Highest award on Tile at Lewis and Clark Fair

Tile from 3 to 12 inch

Order carload lots, or for further particu-
lars write for booklet or call on or address

J. E. MURPHY

Fairgrounds Post Office, Oregon

HUMUS AND HUMOR

This column is devoted to alleged fun and humor pertaining to the ludicrous life of fruit raising in general and to the Hood River district in particular. Correspondence and questions are solicited, but the editor of this page reserves the right to reject any jokes which are sent in. All jokes must be packed 128 to the box and well wrapped, with the grower's label on the box. The box must be well sprayed and contain an unsprayed postage stamp if the return of the material is desired. Nothing will be paid for, as this humor is to be socialistic—"the fun for one, the fun for all."

AFTER reading a great many articles on pruning we are compelled to set matters right and to bring before the growers one thing which seems to have been entirely overlooked. This is nothing more than so shaping our trees that they can be used for social as well as commercial purposes. A tree should be pruned with a view to using it as a support for Chinese lanterns when the grower gives a lawn party. At the proper height and proper angle prongs should be encouraged for hanging these Oriental glims upon. While there have been few lawn socials held in the dust mulch to date, this is no reason why they could not be held, and we predict that next year this department of orcharding will expand greatly. Nothing could be prettier than many colored lanterns hanging out in the Gravenstein grove, or the sound of childish voices 'midst the Red Cheek Pippins. Growers too often think only of the sordid wealth that the trees bring and not enough of the beauty that might accrue from a little thoughtfulness. By all means let us prune for Chinese lanterns. Sacrifice any limb, no matter how well loaded with fruit spurs, for this purpose. Where Chinese lanterns are used, prune in the early summer; where the borrowed barn lanterns of the neighbors are used, prune in the winter.

There will be no material change in the fashions worn by the apple pickers this year. For women, the usual sun

or "poke" bonnet will be worn, also the blue calico apron and black "mitts." The bonnet will be worn on the head, the apron around the waist and over the dress, the mitts on the arms to prevent scratching and limb rub. The men will wear hats, last century's vests, the blue overall of commerce and a large blouse. The large blouse is advised, so that just before quitting time each day three or four dozen choice apples can be filched and secreted therein. These can be taken home, and after a few days a boxful can be obtained in this manner. Should the picker be detected in this by the apples causing lumps to occur in his blouse, he may avoid search by claiming that he is affected by boils. If this excuse is of no avail, he may claim that the apples fell off the tree and down his neck and he did not notice them. This excuse will enable him to keep his job and his reputation unsmirched.

Oh, tell me what is the best to do,
When the work is done and chores are through?
Now, tell me how can a man find time
To work out a mess of sulphur and lime
That clingeth to his beard.

Oh, foolish wight, with the whisker long,
That lime and sulphur does bethrong,
Go out to the barn, with sheep shears keen,
Remove from your jaws this hairy sheen,
And in future keep it pruned.

With us the Apple is King. We will have a Queen for our Apple Fair, but nothing has been said of the Apple Jack.

—K. Wentworth.

◆ ◆ ◆

IN the July edition we published an illustration on page 28, "Apple Picking Time, Mosier, Oregon, at A. P. Batehams." Through some unexplainable mistake the caption is incorrect. It should have read J. P. Carroll's Cherry Orchard.

St. Helens Hall

Portland, Oregon

A GIRLS' SCHOOL OF THE HIGHEST CLASS

CORPS OF TEACHERS,
LOCATION, BUILDING,
EQUIPMENT THE BEST

Send For Catalogue

W. F. LARAWAY

DOCTOR OF OPHTHALMOLOGY

EYES
TESTED



LENSES
GROUND

Over 30 Years' Experience

TELESCOPES, FIELD GLASSES
MAGNIFIERS TO EXAMINE SCALE

HOOD RIVER, OREGON
AND GLENWOOD, IOWA

The School of Size is Good }
" " "Quality" Better }
" " "Having Both" Best } *Investigation will
prove we have both*

"Business Training in Business Methods by Business Experts"

Behnke-Walker

The Leading Business College
Portland, Oregon

WHEN WRITING ADVERTISERS MENTION BETTER FRUIT

LETTERS AND COMMUNICATIONS OF INTEREST

CRUTCHFIELD & WOOLFOLK

Fruits and Produce in Car Lots

Pittsburg, September 7, 1909.

Better Fruit Publishing Company.

Gentlemen: We cannot refrain from voluntarily complimenting "Better Fruit." You have a publication which unquestionably is a great credit to the fruit interests of the entire West. The progressive grower cannot fail to receive most valuable and conservative information from every issue. Any reader will find it an interesting publication and the advertiser with merit cannot spend his money to better advantage. Our identity with the fruit interests of the Northwest as sales agents will always include a keen interest and co-operation with you in better organization of the growers and the maintenance of the highest standard of grading and packing. Wishing you continued success, we are,

Very truly yours,

Crutchfield & Woolfolk.

YAKIMA COUNTY HORTICULTURAL UNION

C. R. Paddock, Sales Manager

North Yakima, Washington, August 21, 1909.

Ren H. Rice, Secretary National Apple Show, Spokane, Washington.

Dear Sir: Enclosed we hand you a copy of a resolution passed by unanimous vote at a meeting of the trustees of this company today. Throughout the fruit growing sections of the Northwest, including Washington, Oregon, Idaho, Montana, Utah and California, there is almost a universal protest against the changing of the size of the standard apple box, which has been adopted and used in all this territory for years. We feel that the Eastern commission men and shippers have no more right to dictate what size box we shall use than we have to say what size of barrel they shall use in the East. The success of the National Apple Show depends very largely on the co-operation of the apple growers of the Northwest, and we, representing indirectly a large percentage of the growers of the Yakima Valley, ask that you recognize our request as outlined in the resolution.

Respectfully,

Yakima County Horticultural Union.

W. N. Irish, President.

O. K. Conant, Assistant Secretary.

RESOLUTION

Resolved, That the secretary be instructed to write to the officers of the National Apple Show of Spokane asking them to reconsider their action in allowing the latitude in apple box sizes, and ask that they require all exhibitors of boxed apples to use the sizes now recognized as standard: The Northwest Standard, 10½x11½x18 inches, and the California Special.

THE GRAND JUNCTION FRUIT GROWERS' ASSOCIATION

Grand Junction, Colorado, August 4, 1909.

Mr. R. W. Gees, President Western Fruit Jobbers' Association, Kansas City, Missouri; Mr. E. B. Branch, Secretary, Omaha, Nebraska.

Dear Sirs: As you know, there is considerable agitation among the apple shippers in reference to

the Laughlin bill. It is my opinion, Mr. Gees, that the Western Fruit Jobbers' Association should designate one day during their meeting in Denver in January to the discussion of this particular bill. I believe we could induce representatives from all over the West, in fact, from all points that use boxes, to attend this meeting. That would give the shippers and receivers a chance to come to some mutual and satisfactory agreement. It might be well to extend your meeting over another day; in other words, have four days' meeting instead of three.

Yours truly,
The Grand Junction Fruit Growers' Association.
By John F. Moore.

Hillsboro, Oregon, August 17, 1909.

Editor "Better Fruit," Hood River, Oregon.

Dear Sir: I notice in an article in your paper written by Mr. J. Withycombe that he makes the statement that I said the best trees in Mr. Prince's orchard were much better than the best trees in Mrs. Vrooman's orchard. I want to state that I did not intend to convey any such meaning in any statement I ever made to Mr. Withycombe or anybody else.

Ferd Groner.

OREGON STATE HORTICULTURAL SOCIETY

Forest Grove, Oregon, August 14, 1909.

My Dear Shepard: It occurs to me that "Better Fruit" has a pretty wide circulation for a two-year-old, judging from the following letter which I recently received from an old schoolmate in Wolfsburg, New Hampshire. The letter is as follows:

"Mr. H. C. Atwell, Forest Grove, Oregon.
"My Dear Sir: I saw your name in the last issue of 'Better Fruit,' published at Hood River. I write to ask if you are the same Homer C. Atwell I knew as a schoolfellow at Morrisville, Vermont, back in the eighties. If so, speak up long and strong, and give me a chance to renew our acquaintance."

It is needless to say that I spoke up lustily, and also congratulated him on his wise choice of reading matter.

Sincerely,

H. C. Atwell.

Healdsburg, California, April 13, 1909.

Mr. E. H. Shepard, Editor "Better Fruit":

Dear Sir—Speaking of the "Spraying Edition," I wish to say that you are certainly entitled to the highest congratulations on this, your best number so far. But I may be in error in saying that, for, as I look back over the past numbers I have received, I find that I would be most unwilling to blot out the information I have gained from any one of them. I consider "Better Fruit" invaluable to the man who purposes to be a fruit grower in the true, full sense of the word, and I shall use every effort to get it into the hands of every grower possible.

Yours truly,

Derral D. Wagers.

Palisade, Colorado, February 14, 1909.

Mr. E. H. Shepard:

Dear Sir—I always take pleasure in speaking a good word about your paper. It is better adapted to our conditions here in an irrigated country than any other paper published, and then it is working along the lines of raising better fruit and putting up a better pack, which I have always been striving for, even before Hood River was on the horticultural map. I remain, yours sincerely,

Dr. J. F. Divine.

Barker, New York, February 13, 1909.

Mr. E. H. Shepard:

Dear Sir—Wish to compliment you on the neat and spicy fruit paper you are publishing. It only goes to show that growers of the Western fruit belts are a class of men who are more up-to-date than the growers of the Eastern fruit belts, especially Western New York. With best wishes I remain,

Yours truly,

L. McNecley.

Cupid Flour

Has same standing in the Flour trade that Hood River Apples have in the Fruit trade.

MADE BY

HOOD RIVER MILLING CO.

S. E. Bartmess

UNDERTAKER AND
LICENSED EMBALMER

For Oregon and Washington

Furniture, Rugs, Carpets
and Building Material

Hood River, Oregon

Look Out!

for imitations of

PEARSON'S
CEMENT COATED
WIRE NAILS

as they are decidedly inferior and do not possess the merits of the genuine, no matter what counterfeits may say.

ALWAYS

specify "PEARSON" and you will get your money's worth. If your dealer does not supply them, write us and we will.

Manufactured only by the

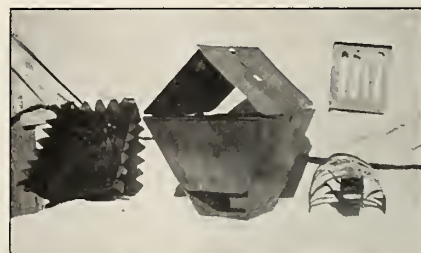
J. C. Pearson Co.

Boston, Massachusetts

A. C. RULOFSON CO.

Pacific Coast Sales Agents

315 Monadnock Bldg., San Francisco, Calif.



Buehring's Perfect Orchard Heater

Will save your fruit crop from Jack Frost. Used with absolute success last spring. For a limited time I will offer this combination coal and oil heater, fully protected by letters patent of June 8, 1909, for sale, state rights or entire patent. For particulars address

Frank Buehring, Grand Junction, Colo.

THE NATIONAL ORCHARD HEATER COMPANY

Incorporated

This Heater saved \$3,000,000 worth of fruit in Grand Valley

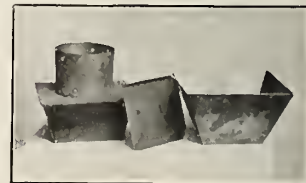
And now we want to say, Mr. Fruit Grower, prepare to fight the frost. It has come; it will come again. Make up your mind what you want, whether it is sawdust, coal or oil, and buy it. Don't wait until the last minute and run into town and kick because it is not lying there ready for you. You can rest assured that these Orchard Heaters will not be carried in stock by dealers like cigars or coffee.

We will say this: We are willing to put the NATIONAL down by the side of any Orchard Heater made, either coal or oil, for a pull of from five to eight hours. A little test of from two to three hours is not a demonstration of the merits of any heater; it simply demonstrates the fact that you have a pot you can burn oil in.

We also manufacture the National Coal Orchard Heater

Write for information

Offices 131 South Sixth Street, GRAND JUNCTION, COLORADO



The PARIS FAIR

Hood River's Largest and Best Store

DRY GOODS SHOES, CLOTHING

We are offering some extra specials in our Clothing Department. Ask to see them

Try a pair of American Lady
\$3 & \$3.50 Shoes or American
Gentlemen \$3.50 & \$4

THINGS WE ARE AGENTS FOR

KNOX HATS

ALFRED BENJAMIN & CO.'S
CLOTHING

DR. JAEGER UNDERWEAR

DR. DEIMEL LINEN MESH
UNDERWEAR

DENT'S and FOWNES' GLOVES

Buffum & Pendleton

311 Morrison St., Portland, Oregon

PACIFIC COAST ASSOCIATION OF NURSERYMEN

Oregon—Albany Nurseries, Albany; A. Brownell, Portland; Better Fruit, Hood River; Brooks Bros., Carlton; Carlton Nursery, Carlton; Freeborough, Montavilla; H. S. Galligan, Hood River; N. B. Harvey, Milwaukie; A. Holaday, Scappoose; C. F. Lansing, Salem; Lafayette Nursery Company, Carlton; M. McDonald, Salem; A. McGill, Salem; S. A. Miller, Milton; G. W. Miller, Milton; C. B. Miller, Milton; F. W. Power, Portland; J. B. Pilkington, Portland; C. F. Rawson, Hood River; F. W. Settlemier, Woodburn; F. H. Stanton, Hood River; E. P. Smith, Gresham; W. S. Sibson, Portland; Sluman & Harris, Portland; C. D. Thompson, Hood River; H. A. Lewis, Portland.

Washington—C. J. Atwood, Toppenish; J. J. Bonnell, Seattle; A. C. Brown, R. D. 2, Selah; Ed Dennis, Wenatchee; A. Eckert, Detroit; D. Farquharson, Bellingham; George Gibbs, Clearbrook; W. D. Ingalls, North Yakima; Interlaken Nursery, Seattle; Inland Nursery and Floral Company, Spokane; Rolla A. Jones, R. D., Hilliard; A. Lingham, Puyallup; G. A. Loudenback, Cashmere; A. W. McDonald, Toppenish; C. Malmo, Seattle; C. McCormick, Portage; W. S. McClain, Sunnyside; T. J. Murray, Malott; G. W. R. Peaslee, Clarkston; Richland Nursery Company, Richland; J. A. Stewart, Christopher; C. N. Sandahl, Seattle; F. K. Spalding, Sunnyside; H. Schuett, Seattle; A. G. Tillinghast, LaConner; Wright Nursery Company, Cashmere; F. A. Wiggins, Toppenish; C. B. Wood, R. D. 2, Selah; C. N. Young, Tacoma.

California—John S. Armstrong, Ontario; F. X. Bouillard, Chico; J. W. Bairstow, Hanford; Chico Nursery, Chico; Leonard Coates, Morgan Hill; California Rose Company, Los Angeles; California Nursery Company, Niles; Charles A. Chambers, Fresno; L. R. Cody, Saratoga; R. P. Eachus, Lakeport; A. T. Foster, Dixon; Tom Griffith, Penryn; E. Gill, West Berkeley; Galloway & Harmon, Healdsburg; O. F. Giffin, Pomona; C. W. Howard, Hemet; John Hedberg, Lindsay; William C. Hale, Orangehurst; William Kelly, Imperial; James Mills, Riverside; S. W. Marshall & Son, Fresno; John Maxwell, Napa; C. C. Morse & Co., San Francisco; Fred Nelson, Fowler; Park Nursery Company, Pasadena; George C. Roeding, Fresno; Ruelh-Wheeler Nursery, San Jose; Silva & Bergholdt Company, New Castle; G. W. Sanders, Davis; Scheidecker, Sebastopol; W. A. T. Stratton, Petaluma; S. H. Taft, Sawtelle; R. M. Teague, San Dimas; Jacob Thomas & Bro., Visalia; T. J. True, Sebastopol; J. B. Wagner, Pasadena; W. F. Wheeler, Oakesdale.

Idaho—Anton Diedrichsen, Payette; C. P. Hart-

ley, Caldwell; J. F. Littooy, Mountain Home; O. F. Smith, Blackfoot; Tyler Bros., Kimberly; British Columbia—F. R. E. DeHart, Kelowna; M. J. Henry, Vancouver; F. E. Jones, Royal Avenue, New Westminster; Richard Layritz, Victoria; Riverside Nurseries, Grand Forks.

New Hampshire—Benjamin Chase Company, Derry Village.

Utah—Harness, Dix & Co., Roy; Orchardist Supply Company, Salt Lake; Pioneer Nursery Company, Salt Lake; Utah Nursery Company, Salt Lake.

Alabama—W. F. Heikes, Huntsville.

Pennsylvania—J. Horace McFarland Company, Harrisburg.

New York—Jackson Perkins Company, Newark; McHutchinson & Co., New York; Vredenberg & Co., Rochester.

Tennessee—J. W. Shadow, Winchester; Southern Nursery Company, Winchester.

◆ ◆ ◆

TO THE PLANTERS OF TREES, BULBS, ETC.

Copy of the new fall catalogue of the Routledge Seed and Floral Company of Portland, Oregon, has just come to our desk. It is up to date and contains much information that will be of value to our readers who intend to buy fruit, shade or ornamental trees, or shrubs, foreign or American bulbs, roots, etc. A request on a postal card will secure a copy of the new edition. See their "ad" elsewhere in this issue of "Better Fruit."

◆ ◆ ◆

THE PACIFIC MONTHLY of Portland, Oregon, is a beautifully illustrated monthly magazine. If you are interested in dairying, fruit raising, poultry raising, or want to know about irrigated lands, timber lands, or free government land open to homestead entry, The Pacific Monthly will give you full information. The price is \$1.50 a year. If you will send twenty-five cents in stamps, three late issues will be sent you so that you may become acquainted with it. Read the following splendid offers:

OFFER NO. 1—McClure's Magazine, Woman's Home Companion and The Pacific Monthly, costing \$4.50, will be sent at a special rate of \$3.00.

OFFER NO. 2—McClure's Magazine, Review of Reviews and The Pacific Monthly, costing \$6.00, will be sent for \$3.60.

OFFER NO. 3—Human Life, Ideal Homes and The Pacific Monthly will be sent for \$2.00.

Order by number and send your order accompanied by postal money order for the amount to The Pacific Monthly, Portland, Oregon.

◆ ◆ ◆

The Northern Pacific Railway is experiencing such an extremely heavy demand for its literature pertaining to the Alaska-Yukon-Pacific Exposition that in addition to a total issuance of 75,000 copies of its elaborate booklet and many thousand small leaflets, a new edition of 25,000 copies of an attractive sixteen-page pamphlet has been struck off and provided to its passenger representatives. This makes upward of 200,000 pieces of literature which the Northern Pacific has issued and distributed advertising the exposition, and every indication is that further supplies of the matter will be required.

◆ ◆ ◆

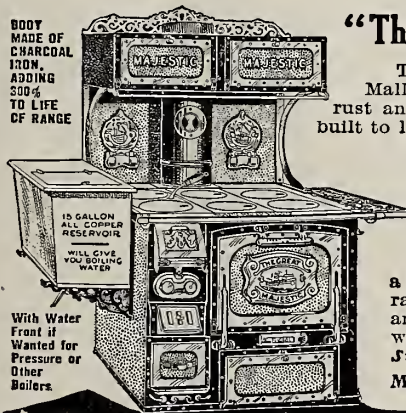
SITUATION WANTED

A well referenced, practical, graduate horticulturist desires a position with some large fruit concern.

Address C. H. R.

505 Paradise St., Pullman, Washington

BODY
MADE OF
CHARCOAL
IRON,
ADDING
300%
TO LIFE
OF RANGE



"The Range with a Reputation"

They're built on honor of the best materials, Malleable and Charcoal Iron. They won't rust and you can't break them because they're built to last.

The Great and Grand MAJESTIC Malleable and Charcoal Iron RANGE

a perfect baker with little fuel. The best range money can buy. Made in all sizes and styles and sold by dealers everywhere. Write for free booklet: "The Story of Majestic Glory"

Majestic Mfg. Co., Dept. 42 St. Louis, Mo.

has a big boiler right close to the fire—heats water in a jiffy. Air-tight joints and pure asbestos lining make

ORDER BY MAIL

from

Jones Cash Store

PORTLAND, OREGON

We Sell Pure Cane Sugar at \$5.65 per 100 Pounds

WRITE FOR OUR CATALOGUE "C" FREE FOR THE ASKING

JONES CASH STORE

PORTLAND, OREGON

Fruit Trees

APPLES, PEARS, PEACHES
CHERRIES, PRUNES

A fine lot of the best varieties, all true to name. Send your want list for prices.

W. C. Hopson Milton, Oregon

420 Acres Devoted to Nursery Purposes

THE WOODBURN NURSERIES

Established 1863 by J. H. Settlemier

Grower of Choice

Nursery Stock

F. W. SETTLEMIER

Woodburn, Oregon



Seeds, Trees,
Bulbs, Shrubs

True Healthy
Stock of

HIGHEST
QUALITY

Our Catalogue tells all. Send today

Routledge
SEED & FLORAL CO.
169 SECOND ST. PORTLAND, ORE.

LAYRITZ NURSERY

Victoria, British Columbia

Headquarters for choice nursery stock in British Columbia. Apple, pear, plum, cherry and peach trees and small fruits, also ornamental trees, shrubs, roses, evergreens, etc. The largest and best assorted stock in British Columbia.

PRICES ON APPLICATION

Carlton Nursery Co. CARLTON, OREGON

Growers of a complete line of nursery stocks. Apples, pears, cherries, prunes, walnuts, plants, etc. Satisfaction guaranteed. We are suppliers of commercial plantings. Before placing your orders be sure and send list of your wants, asking for quotations, as we know we can interest you.

Catalogue upon Application

WASHINGTON NURSERY COMPANY, TOPPENISH

TWO AND A QUARTER MILLION FRUIT TREES, TWELVE THOUSAND SHADE TREES, TWO HUNDRED AND FIFTY ACRE PLANT

As the Seattle bound tourist on the Northern Pacific leaves the bustling little city of Toppenish on the Yakima Indian Reservation, nineteen miles south of North Yakima, his eyes are greeted by the above mammoth sign. A part of the evidence

evidences the intelligent care and cultivation they have had.

"Better Fruit" has carried the ad. of the Washington Nursery Company for a number of years, and has been pleased to note their rapid growth. Its representative has been in their office and nursery upon his regular rounds through the Yakima Valley. He has pressed them repeatedly



is in his immediate range of vision, and if he would take time to stop and spend a few hours walking among the rows of thrifty trees which cover the fields back of the sign for about half a mile each way, he would wonder how it was possible to handle and plant, tree by tree, such a vast number as are represented by the above figures. And that is not all, for in adjoining fields are hundreds of thousands of peach, pear, apple, cherry and plum seedlings rapidly attaining the necessary growth on which to bud this month (July), all of which were planted by hand, and all of which show the same thrifty growth, which

for a few facts and figures regarding their growth and progress, but they have modestly refrained from "tooting their own horn," as they say. However, merit must win, and the few facts and figures referred to in above sign are of sufficient importance to call for more than a passing notice.

The Washington Nursery Company was started by President A. W. McDonald and his associates at Toppenish in 1903. With abiding faith in the nursery business and a good fund of experience in the growing of trees, the Yakima Indian Reservation was selected on account of the absence of orchards or other sources of contamination,

J. B. PILKINGTON

P. O. Box 242 PORTLAND, OREGON

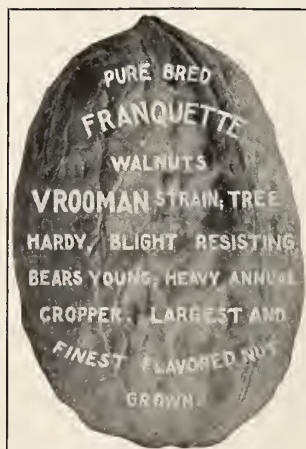
Grower and Importer of

FINE NURSERY STOCK, FRUIT, NUT AND ORNAMENTAL TREES, SHRUBS AND ROSES

Have No Agents

Direct to Planter

Send for Catalogue



SALESMEN WANTED

WALNUTS VROOMAN PURE BRED FRANQUETTE

Recognized as the best commercial walnut on the market today. It is hardy, bears regularly and heavily, with meat of rich, nutty flavor. Both seedling and grafted trees in stock. Write us for information and prices. Literature free.

Oregon Nursery Company

ORENCO, OREGON, via Hillsboro

A REPUTATION TO SUSTAIN

VINELAND NURSERIES COMPANY

PROPAGATORS OF

Reliable Nursery Stock

All Stock Budded from Bearing
Trees, Fruit and Ornamental

CLARKSTON, WASHINGTON

Montana Fruit Growers and Others of High Altitude

We recommend an excellent stock of

McINTOSH RED

and

OTHER FRUIT TREES

For Northwest Fruitgrowers
in general

A full stock of

Spitzenberg, Jonathan, Winesaps, Rome
Beauties, etc.

31 years in business

MILTON NURSERY COMPANY

A. MILLER & SONS, Incorporators

Milton, Oregon

From Grower to Planter

When you buy our trees you get them at first hand. We have a personal interest in seeing that you get just the kind and class of stock ordered. We have thoroughly organized growing, selling and delivery departments and we give your orders the personal attention they must have if you expect satisfaction.

It's important to you to know that your stock passes through as few hands as possible. Many nurseries are heavy dealers, buying and selling stock of numerous small growers.

The nursery company which grows large lots of trees and sells direct to the customers through its own agents has a distinct advantage, and purchasers are assured of satisfaction—provided the company is dependable.

Our Mr. McDonald has done nothing else than grow trees for the last eighteen years. He has entire charge of our growing department. This company has since 1903 been growing stock on the Yakima reservation and selling trees direct to the planter. The enormous trade built up, and the tens of thousands of satisfied customers all over the Northwest is proof of our satisfactory dealings.

Two and a quarter million fruit trees maturing for this season's delivery.

If our salesman fails to see you, drop us a line.

Washington Nursery Company

TOPPENISH, WASHINGTON

Agents everywhere

More wanted

for moss-grown, unkempt trees, either cultivated or wild, are always more or less pest infected. The soil and climate conditions, too, were known to be ideal for the growth of strong, healthy, hardy trees, and results have proven the wisdom of the choice of location. Washington Nursery trees are known from Alberta, Canada, to Southern California, and from Victoria on the West to Detroit in the East, as being the cleanest, best-rooted stock it is possible to obtain.

The growing of the stock is under the direct personal supervision of Mr. McDonald, who has for seventeen years done nothing else than grow trees, and who has under him experienced foremen and employees who know every branch of the nursery business. The field force ranges from thirty to sixty men, while during the packing season just closed there were ninety employees on the pay-roll. House grafting is done during December and January, and the large graft plant set out in March. The seedlings are also planted at this time, and budding done in July and August.

A thoroughly organized office force of nine people is required to handle the vast amount of correspondence and clerical work connected with a business of this class. System in everything, from the beginning of the growing to the end of the shipping, is the watchword.

The business of the company has grown by leaps and bounds, and from a mere handful of salesmen in 1903, the selling force has been increased until today there over one hundred and fifty men representing the company in the big territory it covers, while the plant of staple fruits has grown from about a quarter of a million in 1903 to the figures first named in this article.

The selling department is in charge of Vice-President F. A. Wiggins, who, a farmer's son with twenty-six years of business experience, has learned a few things about handling salesmen and some other things about how to win and hold trade. Mr. Wiggins has his sales force as thoroughly organized as a military company, and a visit to the sales department reveals a thoroughly modern equipment of card indexes and a map and tack routing system, showing by colors the new and old salesmen and their respective territories. Two Edison commercial phonographs are used, one into which he dictates his correspondence and the other reproducing from the wax cylinder the dictation to his typewritist. In this way a vast amount of correspondence is handled in a minimum of time, and all inquiries from customers receive the prompt attention they deserve.

The shipping and bookkeeping departments are in charge of C. J. Atwood, secretary and treasurer

True-to-Name Nursery OFFERS TO PLANTERS

Desiring strictly first-class one-year-old trees grown on No. 1 whole roots, a few thousand apple, pear and cherry of the leading varieties adapted to the Pacific Northwest. We make a specialty of growing Yellow Newtown and Spitzenberg and personally select all buds and scions from bearing and tested trees. Order now for fall 1909; get trees guaranteed "true to name," and avoid future disappointment. Address

H. S. GALLIGAN

Hood River, Oregon

Phone Home 2002K Catalogue on Application

Salesmen Wanted

to sell our High Grade Nursery Stock

Outfit furnished Liberal commission
Cash weekly

Salem Nursery Company, Salem, Oregon

PORTLAND WHOLESALE NURSERY COMPANY

Rooms 1 & 2 Lambert-Sargeant Bldg.

Corner East Alder Street and Grand Avenue

PORTLAND, OREGON

RICHLAND NURSERY

Richland, Washington

FRUIT TREES

Complete stock of leading varieties of
Apples, Pears, etc.

WRITE US FOR PRICE LIST

WHEN WRITING ADVERTISERS MENTION BETTER FRUIT

Yakima Valley Nursery Co.

North Yakima, Washington

One of the
OLDEST, LARGEST AND MOST
RELIABLE
IN THE NORTHWEST

Stock very complete
Quality better than ever

WHOLESALE AND RETAIL

Salesmen wanted

Yakima Valley Nursery Co.

Clogg Building

North Yakima, Washington



FRUIT TREES

ALL STANDARD
COMMERCIAL VARIETIES

The best that good
care can produce

Write us now concerning your
Fall and Winter Planting

AGENTS WANTED

The Silva-Bergtholdt Company
121 Orchard Street Newcastle, California

THE DALLES NURSERIES

(Successors to R. H. Weber)

GROWERS OF

Choice Fruit and Ornamental
Trees, Grape Vines, Small
Fruit Plants and Shrubbery

We do not employ Agents, but sell
DIRECT to the Planter, making
Commercial Orchards a specialty

All correspondence should be addressed to

THE DALLES NURSERIES

122½ Grand Avenue

PORTLAND, OREGON

Remember, our Trees are grown strictly
without irrigation

"THE OLD RELIABLE"

Albany Nurseries

INCORPORATED

ALBANY, OREGON

LARGE STOCK, FIRST CLASS TREES

Place Your Orders Now
CATALOGUE FREE

MORE SALESMEN WANTED

NUTS and FRUITS and FLOWERS



Are you seeking some especially rare plants or beautiful flower? If so, write to us about it. Our stock includes almost everything in hardy plants and trees for garden and orchard. Rare Japanese plants a specialty

Okanogan Nurseries
OMAK, WASHINGTON

F. K. Spalding, Pres. W. S. McClain, Sec.
Harry K. Spalding, Vice-Pres.

The Sunnyside Nursery Company

Paid up Capital \$26,000.00

The Sunnyside Nursery Company have sold practically all of their stock for spring delivery of 1909, and call your attention to the great stock they are growing for next year's trade. They will have

1,000,000 Apple Trees
200,000 Pear Trees
150,000 Peach Trees
100,000 Cherry Trees
50,000 Miscellaneous Varieties

Most complete stock in the Northwest. Write for prices

Main Office at Sunnyside, Washington
Branch Nursery at Grandview

of the company, one of the best office men and keenest accountants to be found in any line of business. The world of detail connected with handling shipments to some five hundred delivery points, each including from one to one hundred orders, a total of more than eight thousand orders each season, must be self-evident, and yet, with the system employed by the company, mistakes are rare, and in a surprisingly short time after the stock is shipped the cash returns begin coming in from the deliverymen and the year's sales become a reality in dollars and cents, for all stock is paid for on delivery.

It will thus be seen that the business of the company is in direct charge of individual members of the firm, and this accounts for the rapid growth of the concern and its reputation for fair dealing.

In 1908 the graft plant alone consisted of over a million trees, all of which were dug and practically every staple variety sold. This year the graft plant is a million, nine hundred thousand, besides the buds, and the sales of the company

are increasing at a rate that indicates another clean-up as complete as that of last year.

It is a pleasure to chronicle the success of any concern whose business has to do with the upbuilding of the country, and the many honorable nursery firms of the Northwest certainly come in this class. From a business which a score of years since was a byword for trickery, owing to wrong methods of marketing their product rather than to any intention to defraud, the nursery business of the West has been made over into a calling which stands high in public esteem. Instead of the tree "peddler," who bought his trees anywhere and labeled them as necessity required, we have the nurseryman who sells his own product through his own salesmen, and thus deals directly with his customers, insuring to all a square deal.

The Washington Nursery is one of the best examples of the success of modern methods applied to the nursery business, and are live exponents of the "square deal" for every tree customer, be he the purchaser of one tree or a thousand.

WHAT ARE YOU GOING TO PLANT? Tokays, Cornichon, Muscat or Malagas

We have them, strong well grown one year vines, finest in the land

How do BARTLETTS strike you this season? Plenty of them, stock cannot be beaten, and prices right. Then how's SPITZENBERG, YELLOW NEWTOWN PIPPIN and YELLOW BELLEFLEUR?

One nurseryman visiting our Nursery said, "Gentlemen, you should be proud of this stock," and we are. So will you be when you plant it.

What about CHERRIES? BING, LAMBERT, BLACK TARTARIAN, ROYAL ANNE and CHAPMAN. It would not be hard to sell you these, could you see them.

PEACHES, stocky, well grown, and, say, they have the roots, plenty of them, and not cut off at top of ground.

Another thing, our prices are RIGHT, treat you RIGHT, we dig our stock RIGHT, handle it RIGHT, treat you RIGHT, and it is sure RIGHT in every way. Write us and we will tell you all about it. Better still, come and see us and we will show you.

CHICO NURSERY CO.

Chico, California

FRUIT TREE STOCKS

BOTH AMERICAN AND FRENCH GROWN

The American are very promising at the present time.

The French are being grown in France on contract expressly for us, and the grading, packing and shipping is looked after by our representative there.

APPLE SEEDLINGS—All grades, straight or branched.

IMMENSE STOCK OF GRAPES—Long on Concord, 1 year. No. 1; also other leading varieties.

CURRENTS AND GOOSEBERRIES—Fine, well-rooted plants.

FOREST TREE SEEDLINGS—COMPLETE ASSORTMENT.

LARGE GENERAL STOCK

SEND LIST FOR PRICES

The Shenandoah Nurseries

D. S. LAKE, Proprietor

SHENANDOAH, IOWA

Hood River Nurseries

Have for the coming season a very complete line of

NURSERY STOCK

Newtown and Spitzenberg propagated from selected bearing trees. Make no mistake, but start your orchard right. Plant generation trees. Hood River (Clark Seedling) strawberry plants in quantities to suit. **Send for Prices**

RAWSON & STANTON, Hood River, Oregon

What is Best Fruit?

It is the fruit that demands the highest price on the market. *Where does it come from?* From the best orchards, no matter what fruit valley they are in. *What makes the best orchards?* That is the vital point for every fruit grower to look to. It is in the beginning of the orchard. *How?* By procuring the best trees to plant; trees absolutely true to name and propagated by responsible nurserymen who gather the buds and scions from the choice trees in actual bearing. *Where?* From the Winfield Nursery Company, of Winfield, Kansas. They procure their scions from the choice orchards in the Grand Fruit Valley of Colorado and Utah by marking the trees during the fruiting season, and thus all trees are propagated from trees of proven quality, hence their *quality trees*, packed so as to retain all their natural vitality, assuring the planter of the best. *Now?* Yes, now is the time to make your selection for next spring planting. Write for our new booklet on *Trees of Quality and What Others Say*.

THE WINFIELD NURSERY COMPANY WINFIELD, KANSAS

J. Moncrief, President. E. S. Moncrief, Vice Pres. R. I. Lemon, Secretary

FRUIT JOBBERS TO BE AT APPLE EXPOSITION

FROM a grower's standpoint there is no feature of the coming Colorado National Apple Exposition that is more worthy of attention than the fact that the Western Fruit Jobbers' Association have so arranged that their annual convention will be held in Denver at the same time as the apple show. This will give the jobbers an opportunity to meet the growers of Colorado where the growers can show what they can do to the best advantage. It will give the jobbers an opportunity to show and tell the growers what sort of apple is best fitted for the markets represented, what sort of apple gets the best price and why. The jobbers can tell the growers what pack is best for certain markets, and, in fact, all the details that will inform the grower as to what his course should be in preparing his apples for market. The growers will have a chance to tell the jobbers of the excellence of the product from their section, and by personal acquaintance with the people who handle the fruit so extend their markets as to make the exposition a lasting benefit. The dates of the exposition are January 3 to 9, 1910.

AGENTS WANTED

To sell our complete line of nursery stock. Cash weekly. Outfit free.

ADDRESS

Capital City Nursery Co. Salem, Oregon

G. A. Loudenback, Proprietor

The Cashmere Nurseries

FANCY NURSERY STOCK

Grower of

General Nursery Stock

Apples, Pears, Cherries and Peaches a Specialty

All trees propagated from bearing trees in the Wenatchee Valley

We do not employ agents, but sell direct to the planter

WRITE FOR PRICE LIST

Quaker Nurseries

We have a large stock of Yellow Newtown Pippins, Spitzenbergs, Jonathans, Wageners, Rome Beauties and all of the leading varieties of apples.

We also carry a heavy line of Bartlett, Comice and Beurre d'Anjou Pears

A general stock of peaches, such as Early Crawford, Elbertas, Late Crawford, Fosters, Tuscan Clings, Muir, Phillips, Early Columbia, etc.

Small fruits in great abundance Raspberries, Blackberries, Strawberries, Dewberries, Gooseberries, Currants, Grapes

C. F. LANSING, Salem, Oregon

FRUIT TREES IN VARIETY

Grape Vines and Berry Plants

A General Line of Nursery Stock

MAXWELL'S NURSERIES

NAPA, CALIFORNIA

Russellville Nursery Grows Trees of Quality

ACKNOWLEDGED BY MANY LEADING NURSERYMEN AND FRUIT GROWERS TO BE THE BEST GROWN ON THE COAST

For commercial orchards we quote the following: 100,000 apple, 50,000 cherry, 50,000 pear and other stock in proportion. Thirty acres of ornamental trees. See our stock and get prices before buying elsewhere. No agents.

Mention "Better Fruit"

H. A. LEWIS, Proprietor, Montavilla, Oregon

FRUIT GROWERS, YOUR ATTENTION!

Royal Ann, Bing and Lambert cherry trees; Spitzenberg and Newtown apple trees; Bartlett, Anjou and Comice pears, and other varieties of fruit trees

A. HOLADAY

MONTE VISTA NURSERY

SCAPPOOSE, OREGON

OUR TREES ALWAYS PLEASE

Satisfaction guaranteed

A NICE ASSORTMENT OF COMMERCIAL VARIETIES

Prompt attention given to mail orders

SELAH VALLEY NURSERY CO. R. F. D. No. 2, Selah, Washington

The Wapato Nurseries

TIM KELLY, Proprietor

Sales Office: North Yakima. Nursery and Business Office: Wapato, Wash.

1,500,000 Fruit Trees

1,500,000 Fruit Trees

WE BELONG TO NO TRUST

We guarantee our trees absolutely true to name. Our stock has been "the standard of excellence" wherever placed. Our system of budding and grafting, and the admirable location of our nurseries, together with our long experience in California and other Western states in planning and planting orchards, makes our advice invaluable to beginners and to those who contemplate commercial orchards. See us

Get our Prices. Remember the Best is Always the Cheapest

FALL SOWING

Grasses—Clovers—Alfalfa

Vetches—Grains

Also SPECIAL MIXTURES for SPECIAL PURPOSES

KNOW WHAT YOU ARE PLANTING

WRITE FOR SAMPLES

and latest market prices. See our "Diamond Quality" before you buy. Judge for yourself. Ask for Catalog No. 200

PORTLAND SEED CO

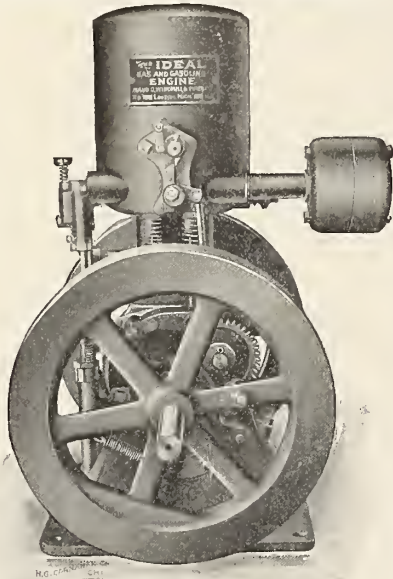


PORTLAND OREGON

Western Agents, Clipper Fanning Mills—"The Vertical Blast"

A GOOD GASOLINE ENGINE

Is one of the best friends a farmer can have. It does not get tired, does not ask for higher wages, nor does it eat while idle. We issue a booklet telling of the many mechanical advantages of the

Ideal Gasoline Engine

We would like you to have this booklet. Write us today for it.

The Hardie Mfg. Co.

22 Front Street Portland, Oregon

OFFICERS OF THE COLORADO APPLE EXPOSITION

THE officers that have been chosen for the work of properly carrying on the Colorado National Apple Exposition, are as follows:

President, C. R. Root, general manager of Barteldes Seed Company; first vice-president, J. F. Moore, manager Grand Junction Fruit Growers' Association; second vice-president, Verner Z. Reed, fruit grower and capitalist, Colorado Springs; third vice-president, J. H. Crowley, fruit grower of Rocky Ford, Colorado; fourth vice-president and chairman of the advisory board, S. G. McMullin,

Grand Junction; treasurer, W. F. R. Mills; secretary, Clinton L. Oliver. The directors are: W. W. Griswold, president of the Plattner Implement Company; J. M. Walker, president of the Humphreys Commission Company; Albert Lawrence, president of the Lawrence-Hensley Fruit Company; Victor

C. M. SHAW

ROY F. DEAN

Dean & Shaw

Electrical Supplies and Fixtures

Scientific Electrical Construction

Home Phone 3 Hood River, Oregon

D. McDONALD

Hood River, Oregon

Headquarters for

FARMING AND ORCHARD

TOOLS

Disc Harrow Extension for Orchard Cultivation a Specialty

When you want any kind of Orchard Tools come to me and get the Best

RHODES DOUBLE CUT PRUNING SHEAR

Pat'd June 2, 1903.

RHODES MFG. CO., GRAND RAPIDS, MICH.

Dept. W.

THE only pruner made that cuts from both sides of the limb and does not bruise the bark. Made in all styles and sizes. We pay Express charges on all orders. Write for circular and prices.

Allen Fruit Caliper

Sizes fruit accurately and rapidly, and enables the practical grower to put up the commercial pack for the fancy trade. Live agents wanted in every fruit district throughout the world.

CORRESPONDENCE SOLICITED

ALLEN & ERFERT

Missoula, Montana

W. L. Goyett

Manufacturer of the

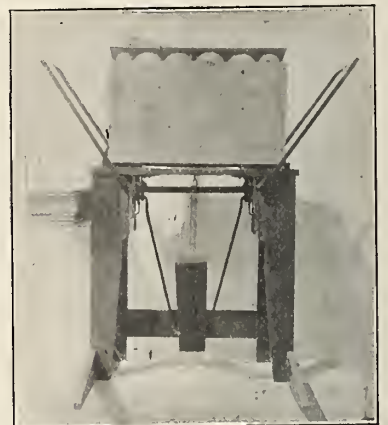
GOYETT AUTOMATIC APPLE BOX PRESS

Canon City, Colo.

The fastest and only automatic apple box press made. Will pay for itself in one season.

Agents Wanted

Retail price \$10, freight paid



Buy and Try

WHITE RIVER FLOUR

MAKES

WHITER, LIGHTER BREAD

R. Olmsted, of the Thompson-Olmsted Investment Company; C. E. Wantland, Union Pacific land agent, and N. G. Wolff, nurseryman.

All these men are busy men. They have heavy and responsible positions to hold in connection with their private business, and they should receive great credit for the time that they are giving to making the arrangements for the apple exposition. If it were not for their public spirit and their interest in the welfare of Colorado as a state, they

would not do it, but they are all loyal citizens and all donate their services, except the secretary, who gives his entire time to the work. Naturally, it will be necessary to use a great deal of help as time goes on and the detail work becomes heavier, and this feature has all been anticipated. The board of directors have the support and counsel of an advisory board, made up of people chosen from the various fruit sections of the state. Later we will give a list of the members of this board.

THE WATERLOO GASOLINE ENGINE *Is the Steady Service Engine*

Eliminates usual gasoline engine troubles. Write for complete descriptive catalogue, which explains in detail the many superior features

2-horsepower - - \$ 90.00
4-horsepower - - 160.00

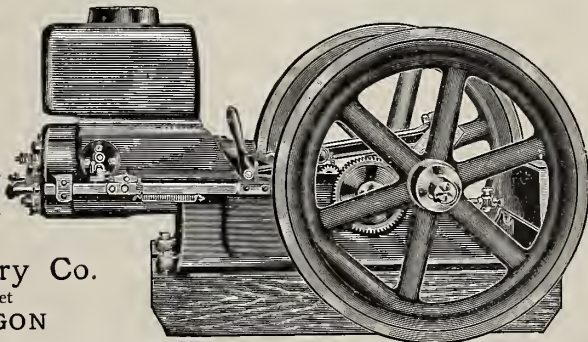
f. o. b. Portland, Oregon

Write us about your machinery and pump requirements

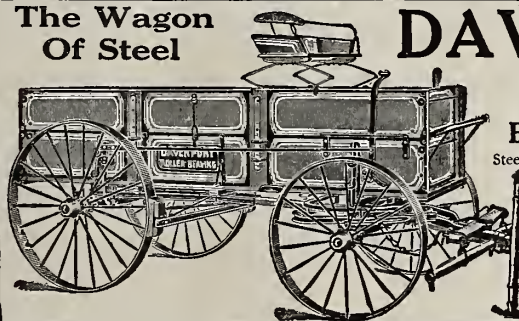
Pipe Pumps Windmills
Gasoline Engines Launches
Well Drilling Outfits
Hydraulic Rams Fittings Belting
Saw Mill Machinery

Reierson Machinery Co.

182-4-6 Morrison Street
PORTLAND, OREGON



The Wagon
Of Steel



DAVENPORT

Roller Bearing

Makes draft 30 to 50% lighter.

Built the Modern Way

Steel Gears and Wheels trussed like a bridge.
Automobile Hub. Oil Without Removing Wheels.

Get Our Free Book

It pays to know the Davenport Roller-Bearing Steel Wagon. Cheapest because it has double the life of the best wooden wagon. Write now for Catalog V, to

DAVENPORT WAGON CO.
Davenport, Iowa.

ORCHARDIST SUPPLY HOUSE

FRANZ
HARDWARE CO.

Hood River, Oregon

HEADQUARTERS FOR CENTURY SPRAY PUMPS

Hose, Nozzles, First-class Plumbing Supplies

C. F. SUMNER

Successor to Norton & Smith

HOOD RIVER, OREGON

KIMBALL CULTIVATOR

PRICE \$20

F. O. B.

Is the one to use in all feet wide, very easy to which prevents striking No hoeing of trees where used on it in orchard, fern, pink, sorrel, oats, thistle it has no equal

orchards. It is 8 1/2 guide, has a fender the tree with knife. used. Two horses or for destroying briars and Canada



In using this implement the driver will stand in center of board, over knives, and to guide it will step to right or left, as occasion requires, and if anything should catch or gather on the knives the driver will step forward on draft board, tilt the handle forward, raising the knives, so that anything that has gathered on them may free itself. Keep all of the burrs tightened, and should any of the knives get bent out of shape force them back to place without removing them from the frame.

Johnston & Weber, The Dalles, Oregon

Sole Agents for Eastern Oregon, Washington, Idaho

GILBERT-VAUGHAN IMPLEMENT CO.

Local Agents, Hood River, Oregon

VEHICLES AND AGRICULTURAL IMPLEMENTS

THE BEST OF
ORCHARD AND GARDEN TOOLS
A SPECIALTY

GILBERT - VAUGHAN
IMPLEMENT CO.

HOOD RIVER, OREGON

Malthoid Roofing

The roofing that always makes good. No matter how big or little the job, Malthoid fits every condition and renders a roof service that is absolutely incomparable. If you want the roofing that is right—demand Malthoid. Made by the original makers of ready roofings.

THE PARAFFINE PAINT CO.

San Francisco

Portland

Stewart Hardware & Furniture Company, Distributors, Hood River

SUMMER AT THE SEASIDE

Before you make your plans finally for your summer outing send for the new Summerbook just published by the O. R. & N. and S. P. and read all about the popular beach resorts of the Northwest.

North Beach

Is the popular summer resort on the Washington coast near the mouth of the Columbia River, reached from Portland, Oregon, daily, except Sunday, by the O. R. & N.'s fine excursion steamer T. J. POTTER. Send for a schedule.

A dozen little cottage settlements scattered for miles along the wooded meadowland just back from the beach furnish comfortable accommodations for thousands of pleasure seekers every summer. Climate delightful; no extreme heat; no dust; exhilarating surf bathing; all kinds of amusement; plenty to eat, cost moderate. An ideal place for rest and recreation. Summer excursion rates from all parts of the Northwest.

Newport YAQUINA BAY

Is Oregon's noted beach resort. It is reached by way of the Southern Pacific to Albany, Oregon, thence Corvallis & Eastern Railroad to the coast.

The attractions at Newport are said to be so varied and numerous that they cannot be exhausted. Its agate beds on Nye Beach, rock oyster beds, Indian camps and basketmakers, boating and launching on Yaquina Bay, surf and bathhouse bathing, hunting, fishing, picnicking, etc., keep visitors busy all summer with pleasant and healthful pastimes.

CAMPING AT NEWPORT

Is especially attractive. Accommodations ample, food supplies abundant and sanitary regulations are complete. Summer excursion rates from all parts of the Northwest.

Apply to any O. R. & N. or Southern Pacific agent for full information about rates, routes, and a copy of "Oregon Outings."

Wm. McMurray

General Passenger Agent

Portland, Oregon

THE COLORADO NATIONAL APPLE EXPOSITION

Denver Auditorium

January 3 to 8, 1910

Invites the

Northwest Apple Growers

To exhibit at, and attend the event

**BIG PREMIUM LIST
AND COMPETITION OPEN
TO THE WORLD**

For further information address

CLINTON L. OLIVER, Secretary

1725 Stout Street

Denver, Colorado

SUBSCRIBE TO BETTER FRUIT

BECAUSE it is better than any other fruit growers' paper published in the world, for the practical fruit grower.

*If you are a fruit grower
send for a sample copy*

\$1.00 PER YEAR, IN ADVANCE

FIRELESS COOKER BOON TO COUNTRY WOMEN

OUR modern civilization has evolved many labor-saving devices for women which, in comparison with the old-fashioned methods render house-keeping extremely easy. Hence, the country woman has reason to welcome the fireless cooker, and she should not allow prejudice to keep her from fully investigating its claims. The name fireless cooker is somewhat misleading; heat

retainer would have been better, as the principle upon which it cooks is that the heat is retained by insulation after the food has been brought to a boil on the flame or coal stove. This principle has long been known and used in Europe, and its practical adaptation to the needs of the American housekeeper is destined to revolutionize the burden of cooking.

By means of the fireless cooker the farmer's wife can start her vegetables, meat and soup to boiling while she is cooking breakfast, and have them snugly packed away in the cooker half an hour later, to be taken out "piping hot and done to a turn" for dinner. In the meantime she has a cool kitchen in which to wash up her breakfast dishes, churn and do the many other things that fall to the lot of a woman in the country.

One farmer's wife, writing of the fireless cooker, says: "It is the greatest help to women of the age, and the greatest saver of fuel and labor. My dinner is all in the cooker now and it has been for three hours. My kitchen is nice and cool and I have taken a good rest. No running to see about fires; just leave it alone, and when wanted all will be done to a turn."



ERROR in the September number. In the illustration on page 16, "The Packing Houses of Hood River Valley," the upper left hand corner packing house is the property of F. Eggert, Eggermont, Hood River; being used as a packing house by Mr. Henry Avery.

Better Fruit is printed by us

We arrange and print
booklets for growers
of fruit, development
leagues and others

**F. W. Baltes
& Company**

PRINTERS

PORTLAND, OREGON



When you get to Hood River
stop at the

MT. HOOD HOTEL

Trains stop directly in front
of hotel. Bus meets all boats

Automobile service daily for
Cloud Cap Inn during months
of July, August and September

MAGAZINE BARGAINS

BETTER FRUIT

AND	Value	Cost
Ainslee's Magazine	\$2.80 for	\$2.35
American Boy	2.00 "	1.65
American Magazine	2.00 "	1.65
American Motherhood	2.00 "	1.75
Atlantic Monthly	5.00 "	4.25
Bookman	3.50 "	3.10
Boston Cooking School	2.00 "	1.65
Burr McIntosh Monthly	4.00 "	3.00
Century Magazine	5.00 "	4.80
Children's Magazine	2.00 "	1.65
Christian Herald (N. Y.)	2.50 "	2.10
Cosmopolitan Magazine	2.00 "	1.65
Country Life in America	5.00 "	4.00
Craftsman	4.00 "	3.35
Current Literature	4.00 "	3.25
Designer	1.50 "	1.35
Dressmaking at Home	2.00 "	1.65
Etude (for music lovers)	2.50 "	2.00
Field and Stream	2.50 "	2.00
Garden Magazine	2.00 "	1.65
Good Housekeeping	2.00 "	1.65
Hampton's Magazine	2.50 "	2.00
Harper's Bazar	2.00 "	1.65
Harper's Magazine	5.00 "	4.50
Harper's Weekly	5.00 "	4.50
Home Needlework	1.75 "	1.50
House Beautiful	3.50 "	3.25
Housekeeper	1.75 "	1.60
Housewife	1.35 "	1.25
Human Life	2.00 "	1.65
Independent	3.00 "	2.35
International Studio	6.00 "	5.25
Judge	6.00 "	5.25
Ladies' World	1.50 "	1.35
Leslie's Weekly	6.00 "	5.00
Life	6.00 "	5.35
Lippincott's Magazine	3.50 "	2.75
Little Folks (Salem) new	2.00 "	1.65
McCall's Mag. and Pattern	1.50 "	1.40
McClure's Magazine	2.50 "	1.90
Metropolitan Magazine	2.50 "	1.65
Modern Priscilla (fancywork)	1.50 "	1.35
Mother's Magazine	1.50 "	1.35
Musician	2.50 "	2.00

Greatest Subscription Offer

Through a most unusual arrangement with the publishers, we are able to make this remarkable offer to our subscribers. Three Magazines and a Dress Pattern for only \$2.15.

Better Fruit, 12 numbers, \$1.00

Success Magazine, (Home) 12 numbers, 1.00

Pictorial Review (Fashion) 12 numbers, 1.00

Modern Priscilla (Fancywork) 12 numbers, .50

Pictorial Review Pattern .15

Total, \$3.65

Pictorial Review Pattern

VALUE 15 CENTS

Supplied by the publisher, at the subscriber's request, any time within 60 days after receiving first copy

This offer is open to old and new subscribers alike. Order must be given (enclosing \$2.15) at the time subscription is renewed.

**BETTER FRUIT HOOD RIVER
OREGON**

BETTER FRUIT

AND	Value	Cost
National Home Journal	\$1.50 for	\$1.25
National Magazine	2.50 "	2.00
New Idea (N. Y.) fashions	1.50 "	1.35
North American Review	5.00 "	4.50
Outing Magazine	4.00 "	2.35
Outlook	4.00 "	3.75
Pacific Monthly	2.50 "	2.00
Pearson's Magazine	2.50 "	2.00
Physical Culture	2.00 "	1.65
Pictorial Review and Pattern	2.00 "	1.65
Popular Magazine	2.50 "	2.20
Puck	6.00 "	5.10
Putnam's Reader	4.00 "	2.35
Recreation	4.00 "	2.35
Red Book	2.50 "	2.25
Review of Reviews	4.00 "	2.35
Rudder	4.00 "	2.35
Scientific American	4.00 "	3.60
Scribner's Magazine	4.00 "	3.65
Smart Set	3.50 "	2.35
Smith's Magazine	2.50 "	2.20
St. Nicholas	4.00 "	3.80
Strand Magazine	2.50 "	2.40
Success Magazine	2.00 "	1.65
Sunset Magazine	2.50 "	1.65
Technical World Magazine	2.50 "	2.00
Travel Magazine	2.50 "	2.00
Van Norden Magazine	2.50 "	1.75
Woman's Home Companion	2.25 "	1.90
World To-Day	2.50 "	2.00
World's Work	4.00 "	3.25

YOU MAY ADD TO YOUR LIST

All Story	For	\$1.00
Argosy	"	1.00
Collier's Weekly	"	5.20
Delineator	"	1.00
Everybody's Magazine	"	1.50
Ladies' Home Journal	"	1.50
Literary Digest	"	3.00
Munsey's Magazine	"	1.00
Popular Mechanics	"	1.00
Saturday Evening Post	"	1.50
Youth's Companion	"	1.75

COLORADO WILL HAVE A GREAT APPLE CROP

COLORADO is to have the largest percentage of a crop of any state in the Union this season. Some people in making estimates of the percentage place it at eighty-seven per cent of a full crop. However this may be, the fact remains that Colorado is to ship the largest crop this year that has ever been marketed from the orchards of the state before. No better time could have been chosen for the holding of a great national apple exposition like the one that is to be in the Denver, Colorado, Auditorium during the week from January 3 to 9, 1910. The management of this show is in the hands of the Colorado apple growers and dealers and the Denver Chamber of Commerce. This combination assures the success of the show. The growers of the state have raised a fund of \$5,000, and the chamber of commerce is taking

charge of the arrangements and providing a premium list that is expected to aggregate more than \$25,000 in value.

This premium list will bring exhibits from all corners of the country and will be worth competing for. No one doubts that the Denver show will be the greatest to be held this season.

Burpee's Seeds that Grow

140 VARIETIES ANY QUANTITY

Plenty of stock in our 40,000 pounds

Growing Plants as Season Requires

All Makes High Grade

Pruning Tools

Garden Tools

Hose and Spray Nozzles

International Stock and

Poultry Food

International Remedies

Incubators and Brooders

Everything for Building

Everything for Furnishing

Stewart Hardware & Furniture Co.

22,000 feet floor space Hood River, Oregon

SEND NOW FOR

**LILLY'S
BEST**

POULTRY BOOK

THE EXPERIENCE OF 20 YEARS
A CATALOG
A GUIDE

THE CHAS. H. LILLY CO. SEATTLE
PORTLAND

**Stranahan
& Clark**

DEALERS IN

Commercial Fertilizers

Land Plaster, Lime

Plaster Paris, Cement

Building Plasters

HOOD RIVER, OREGON

OF INTEREST TO FRUIT GROWERS.

We take pleasure in announcing to the trade that we have now added to our list of insecticides and fungicides, a Lime and Sulfur Solution, making our line of spraying compounds the most complete on the market today.

SHERWIN-WILLIAMS LIME-SULFUR SOLUTION

is a sparkling, clear, cherry-colored liquid, which, on account of being filtered and clarified, does not contain anything that will settle, and is therefore ideal for the requirements of orchardists and horticulturists. S-W. Lime-Sulfur Solution works perfectly in spraying pumps, and is used cold with splendid satisfaction.

The S-W. line of spraying compounds now includes:

S-W. LIME-SULFUR SOLUTION

S-W. BORDEAUX MIXTURE

S-W. ARSENATE OF LEAD

S-W. PARIS GREEN

If you use Sherwin-Williams Insecticides, you may be sure that you are getting the best there is on the market.

For further particulars, write our nearest office.



THE SHERWIN-WILLIAMS CO.

MANUFACTURERS PAINTS, VARNISHES
AND INSECTICIDES

FACTORIES: CLEVELAND, CHICAGO, NEWARK, MONTREAL, LONDON, ENG.
SALES OFFICES AND WAREHOUSES IN 26 PRINCIPAL CITIES.



655

POTASH



The market value of
APPLES

is determined by size, soundness, color and flavor—all of which are improved by the use of Potash. Potash not only improves and increases yield but produces new woody growth in orchard stock.

Potash Pays

Send for Valuable Books on fertilizing, prepared by experts, and invaluable to the orchardist. Sent free on application.

GERMAN KALI WORKS
93 Nassau Street, New York

ATLANTA: Candler Bldg. CHICAGO: Monadnock Block

Meyer, Wilson & Co., San Francisco, Cal., are sole agents for the Pacific Coast

Medford Spray Co.

MEDFORD

Oregon Spray Co.

PORTLAND

Hood River Spray Mfg. Co.

HOOD RIVER

These Factories Make and Distribute the Famous

NIAGARA Lime-Sulphur Spray

The leading fruit growers and fruit growers' associations of the Northwest use NIAGARA exclusively

There is a Reason Why

NIAGARA is made under special process originated by ourselves. The only known process by which is made a permanent, clear and reliable solution of lime and sulphur of sufficient strength to meet all requirements

Write for Further Information

Wherever Fruit Excels NIAGARA SPRAY is Used

Yakima Valley

Washington

The Home of the Prize Red Apples

THE

Northern Pacific Railway

IS THE ONLY DIRECT ROUTE

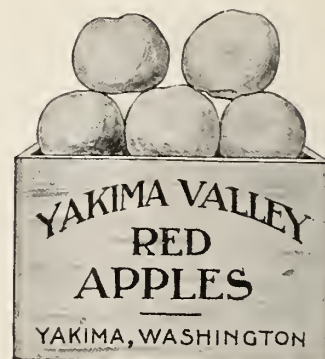
All kinds of the best Fruits, Vegetables, Grains, Grasses and Hops are produced without failure. IT IS UP TO YOU to start in the right location, GET A HOME and be independent.

For descriptive printed matter and full information



Write to C. W. MOTT
General Emigration Agent
Northern Pacific Railway
ST. PAUL, MINN.

What
One Man
Has Done
Others
Can Do:



North Yakima, Wash.,
Feb. 15, 1909.

Mr. C. W. Mott,
G. E. A., N. P. Ry.,
St. Paul, Minn.

Dear Sir: — I own 20 acres; paid \$100 an acre for same in 1884. Could sell now for \$2,500 an acre. It is all in apples, peaches, pears and apricots. My average crop is \$7,000 for the apples; \$1,500 for the pears, and \$1,500 for the peaches and apricots. Have got \$1,200 off one acre of Rome Beauty apples.

Yours truly,

W. L. Wright

Plan Your Vacation Now at Our Expense

A CHOICE OF FOUR

FREE TRIPS

IS OFFERED YOU

Seattle, during Alaska-Yukon Exposition
Yellowstone National Park
Yosemite Valley Lake Tahoe

ALL YOUR EXPENSES PAID

If you have friends in the East who want to visit the Pacific Coast we can arrange it

THIS IS YOUR OPPORTUNITY

For Complete Information Address

SUNSET TRAVEL CLUB

ROOM 16, FLOOD BUILDING
SAN FRANCISCO

What Walla Walla Wants is You

Our valley is an agricultural paradise.
We have hundreds of prospering ranches.
We have the oldest orchards in the state.
We have the earliest strawberries in the state, year after year.
We have a climate that is right, and gardens grow nearly all winter.
We have the noted Blalock fruit farm of 1,500 acres.
We have the famous Dumas orchard of 100 acres, which has produced 69,000 boxes of high grade apples during the past two seasons.

We have the soil, and the water in abundance, and our valley has been making good, as a place to farm and a place to live, for the past fifty years—yes, we emphasize that latter point, for it is of more importance than is sometimes understood. **WALLA WALLA VALLEY IS A GOOD PLACE TO LIVE**, for here agriculture goes hand in hand with a long established "civilization." In fact, the chief city of the valley, in addition to offering every ordinary convenience and benefit, is the home of the famous Whitman College, now accumulating an endowment of \$2,000,000, and ready today, with the scores of other schools throughout the valley, to welcome your children to opportunities equal to those of the East.

ASK QUESTIONS

Commercial Club, Walla Walla, Wash.

MOSIER

The natural home of Newtown and Spitzenberg apples

Apple Land

Good, Better, Best at Prices Lower than
Less Valuable Land in Other Localities



MOSIER APPLES AT HOOD RIVER FAIR

Scenery, climate, water and general conditions unsurpassed for residence, and for the raising of all kinds of fruit. Mosier is a Siamese twin to Hood River (six miles east) in the fruit industry.

Further information gladly furnished by
Commercial Club of Mosier Valley
MOSIER, OREGON

"Oregon- Washington Limited"

The New Fast Train

Between

**PORTLAND
AND
CHICAGO**

O. R. & N.
Oregon Short Line
Union Pacific R. R.
Chicago & Northwestern Ry.

FIVE THROUGH TRAINS DAILY
TO THE EAST

BLOCK SIGNAL PROTECTION

Modern passenger equipment. Through dining car service. Tickets and sleeping car reservations at City Ticket Office, Third and Washington Streets, Portland, or any O. R. & N. agency elsewhere

Wm. McMurray

General Passenger Agent Portland, Oregon

BETTER FRUIT

E. H. SHEPARD, *Editor*

HOOD RIVER, OREGON

BETTER FRUIT IS THE MOST INSTRUCTIVE AND THE BEST FRUIT GROWERS' PAPER PUBLISHED IN THE WORLD
MONTHLY, ILLUSTRATED, ONE DOLLAR PER YEAR IN ADVANCE

Official Organ of the Northwest Fruit Growers' Association

July 28, 1909.

Printers Ink Publishing Company, New York, N. Y.

Dear Sirs: The following is the circulation for "Better Fruit" for the past twelve months. I appeared before a notary and have sworn to the following statement:

August, 1908 - - -	7,120	December, 1908 - - -	7,120	April, 1909 - - -	10,120
September, 1908 - - -	7,120	January, 1909 - - -	6,120	May, 1909 - - -	9,120
October, 1908 - - -	5,620	February, 1909 - - -	9,120	June, 1909 - - -	9,120
November, 1908 - - -	6,620	March, 1909 - - -	9,120	July, 1909 - - -	14,300

Yours truly,

BETTER FRUIT PUBLISHING COMPANY

E. H. Shepard, Editor

Sworn to before me this 5th day of August, 1909.

[Seal]

ALTON W. ONTHANK,

Notary Public for Oregon.

A GREAT RECORD

Evidence that ads in "Better Fruit" get results:

	Number of Advertisers	Number of These Appearing in Every Issue Since	Per Cent of Adver- tisers Appearing in Every Issue Since
Volume 1, No. 1, July 1906 - - -	57	38	65 per cent
Volume 1, No. 7, January 1907 - - -	85	49	56 per cent
Volume 2, No. 7, January 1908 - - -	147	71	48 per cent
Volume 3, No. 7, January 1909 - - -	148	91	60 per cent
Volume 3, No. 12, July 1909 - - -	163		

65 per cent of the advertisers in the first issue have appeared in every issue since.

56 per cent of the advertisers when "Better Fruit" was six months old have appeared in every issue since.

48 per cent of the advertisers when "Better Fruit" was 1½ years old have appeared in every issue since.

60 per cent of the advertisers in "Better Fruit" when 2½ years old have appeared in every issue since.

Such a record is remarkable and indisputable evidence and proof that advertising in "Better Fruit" gets results and pays.

Sample copies, rate cards and contracts furnished on request, also a brief circular showing why we get results. A map showing "Better Fruit" circulation and a circular letter with nineteen voluntary testimonials that we do get results, covering eight states, fourteen different cities, and fourteen different classes of business. Also sworn statement of circulation by both the printer and the publisher.

BETTER FRUIT PUBLISHING COMPANY

Hood River, Oregon

F. W. BALTES AND COMPANY

DESIGNERS, PRINTERS AND BINDERS

CORNER FIRST AND OAK STREETS

PORTLAND, OREGON

June 30, 1909.

I hereby certify that F. W. Baltes & Company printed the following number of copies of "Better Fruit":

January, 1909 - - -	6,120	March, 1909 - - -	9,120	June, 1909 - - -	9,120
February, 1909 - - -	9,120	April, 1909 - - -	10,120	July, 1909 - - -	14,300
		May, 1909 - - -	9,120		

F. W. BALTES.

State of Oregon, County of Multnomah, ss.

Subscribed and sworn to before me this 1st day of July, A. D. 1909.

[Seal]

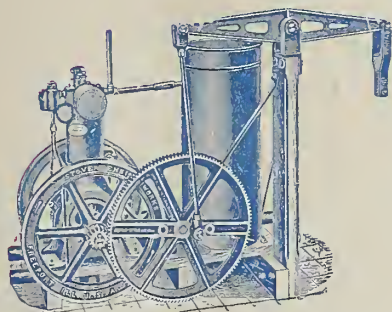
JOHN H. MIDDLETON,

Notary Public for Oregon.

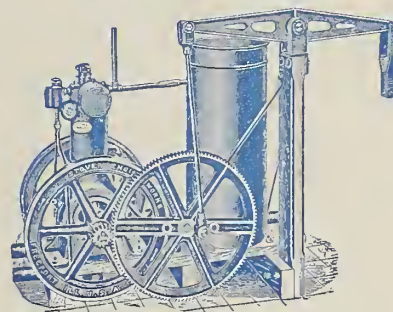
FOR PUMPING DUTY

There is no Engine like

THE STOVER



Absolutely reliable. Starts when you want it to start. Stops only when you want it to stop. Easy to understand. Easy to operate. The simplest engine on the market. Most economical power known. 2000 in use in the Northwest. Develops full rated horsepower. Made in both vertical and horizontal styles. Send for free catalogue.



IF YOU CONTEMPLATE INSTALLING A

WATER SYSTEM

CONSULT US, WE HAVE A COMPLETE STOCK OF

Pumping Apparatus, including Tanks, Pipe and Fittings



PORTLAND
OREGON

SPOKANE
WASHINGTON

BOISE
IDAHO

SHIPPERS, ATTENTION!

LARGE SHIPPERS—You are respectfully asked to join the PRODUCE REPORTER COMPANY. The value of a membership can hardly be measured in dollars and cents, but you may save or make enough more upon even one car during the season than your membership dues will cost for a year. This is a broad assertion, but one that is easily proved. Shippers in the Northwest who have tried it will testify to the correctness of this statement. If you will give us a chance we will send you their names and our literature. The Northwest is noted for the wide-awake, progressive character of its fruit growers and shippers, and they take to our proposition like ducks to water.

ASSOCIATIONS—The organization of producers into local associations has proved profitable. Many new associations are springing up, and all of them recognize the cardinal principle of co-operation. This, coming to its legitimate conclusion, involves the joining of a great **national** organization. This is what the PRODUCE REPORTER COMPANY is. It is the only one. It is a demonstrated success. To be outside of it is to be at a disadvantage with your competitors. To be a member is to be kept informed up-to-date upon the business methods and daily history of firms who are now, or will soon be, wanting to deal with you. You do not care how much money they have, as some of the richest are the biggest robbers. What you want to know, and this organization is the only one that can tell you, is **how they treat their customers**. As they have treated others, presumably, they will treat you. So much for that point. Here is another. With the best management, between the best of firms, there will at times arise differences which require immediate, experienced assistance of a disinterested agency, capable of, and disposed to, look after and protect the interests of the members, treating both parties fairly, and impartially insisting upon the fulfillment of the contract. This is one of the features that has made the PRODUCE REPORTER COMPANY famous.

CONCLUSION—At least you ought to know all about this proposition, and what it pretends to do for shippers. You are behind the times if you do not learn about it. Write today for booklet.

PRODUCE REPORTER CO.

34 South Clark Street

CHICAGO, ILLINOIS

HOOD RIVER

APPLES AND STRAWBERRIES

That's all

The World Knows the Rest

The fruit growers had \$36,000 in the bank in 1901. Today the three banks carry \$1,000,000.

Fruit pays from \$500 to \$1800 per acre and is all sold at the highest prices while still on the trees.

We have 40,000 acres left awaiting some one to come to help us improve it. Do you want a chunk?

Electric light and phone service covers the valley and for pure water, healthy climate and excellent scenery we have them all going.

Write the Commercial Club today for complete information. Better still, pack your grip and come with it.